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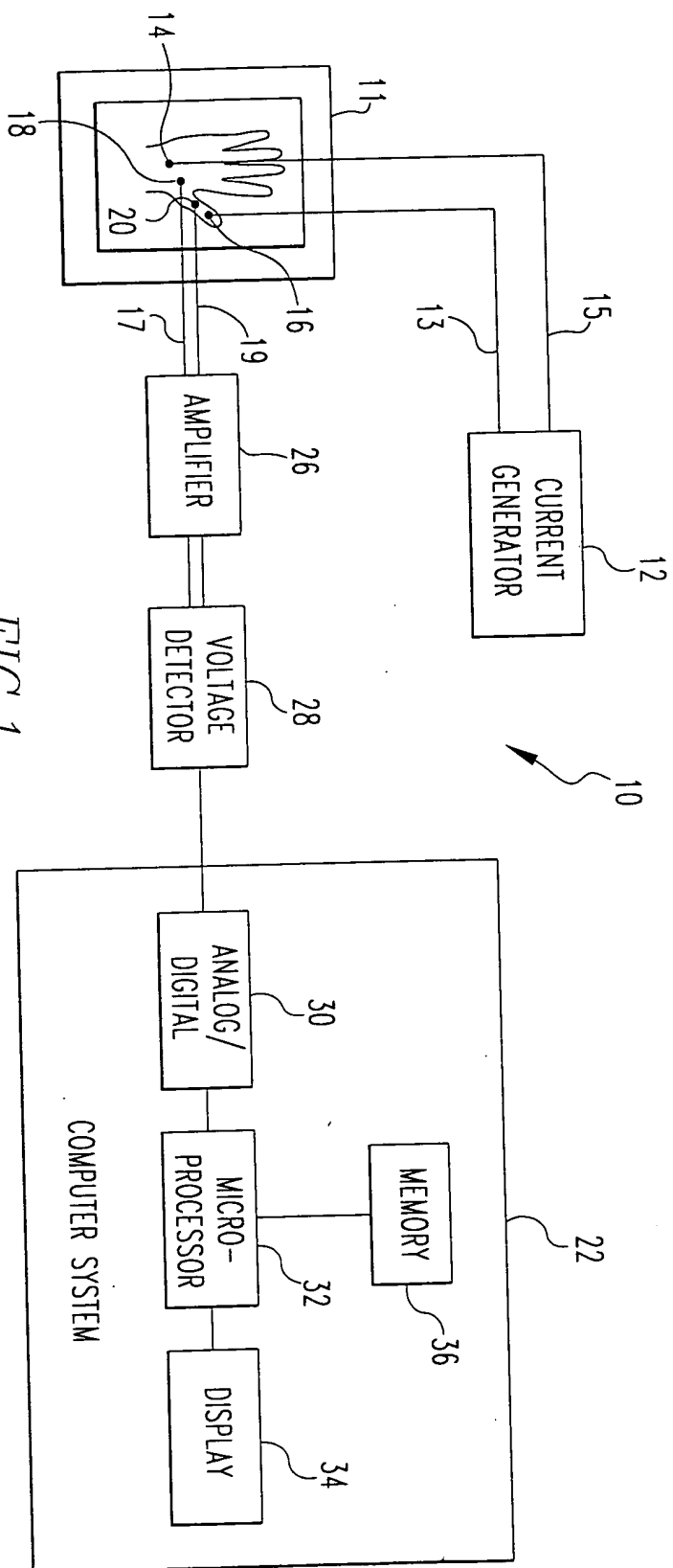


FIG. 1

[illegible]

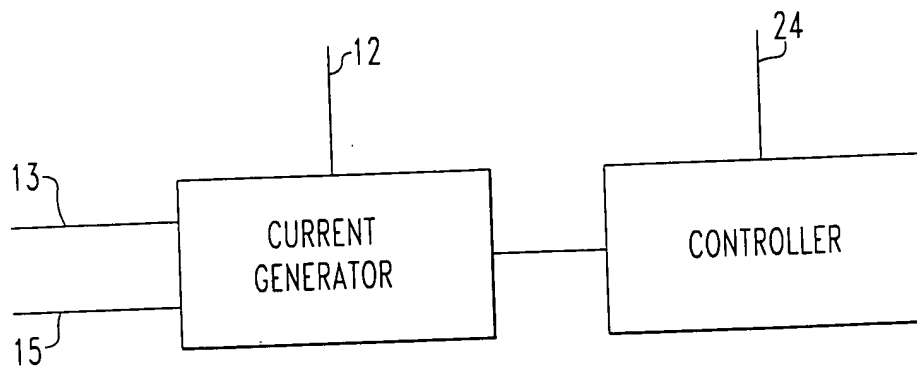


FIG.2

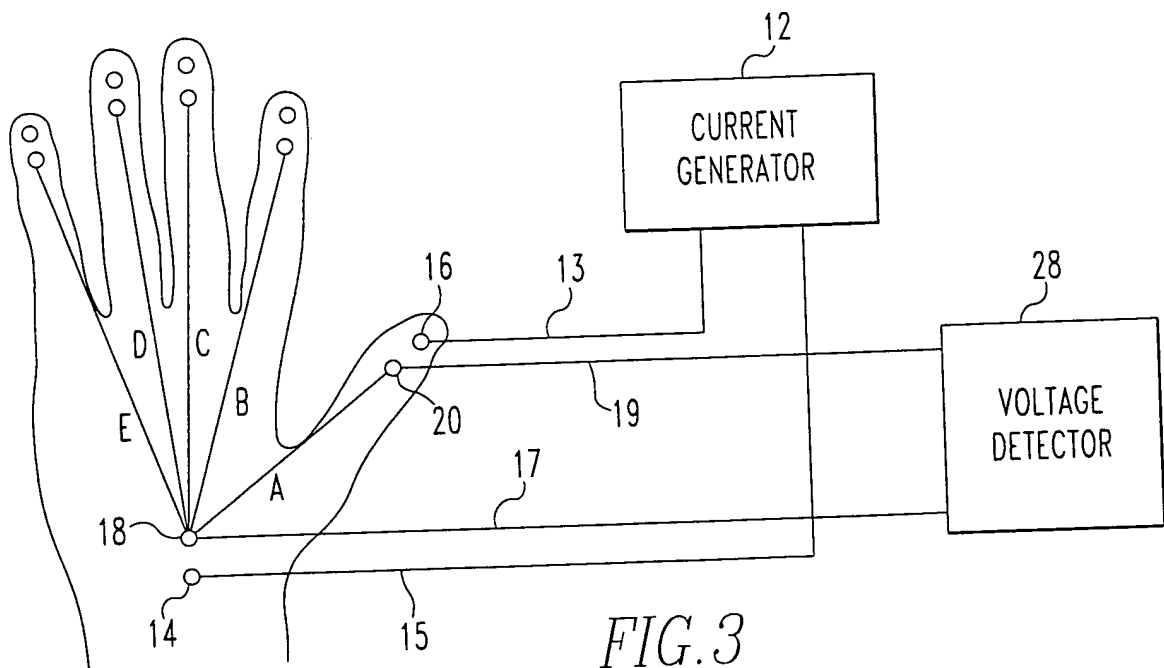


FIG.3

2025 RELEASE UNDER E.O. 14176

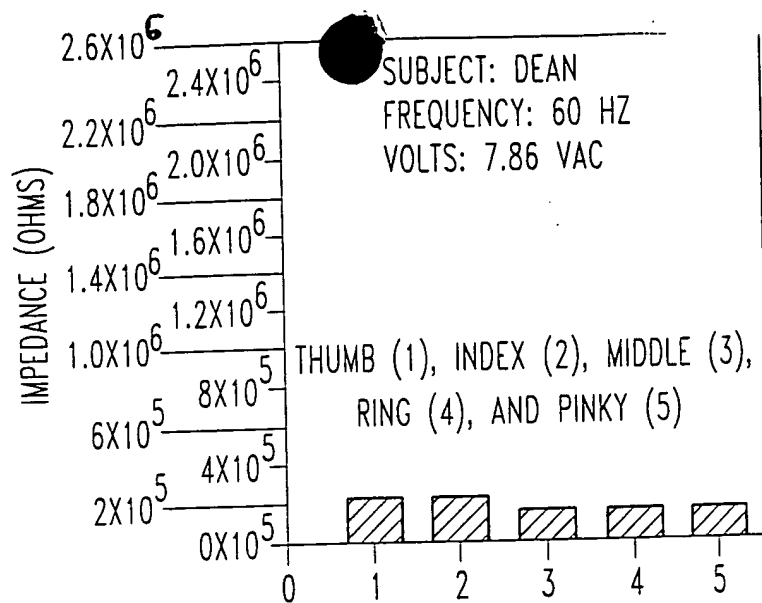


FIG. 5A

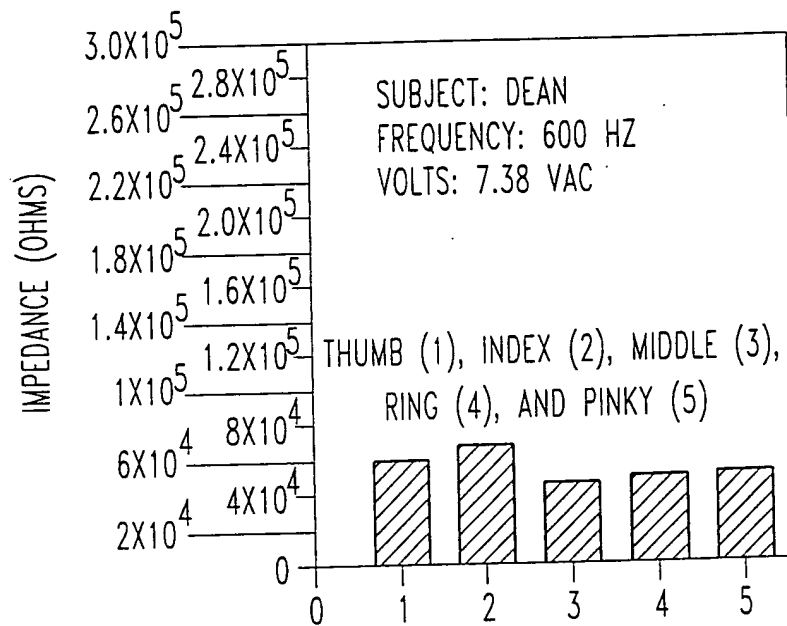


FIG. 5B

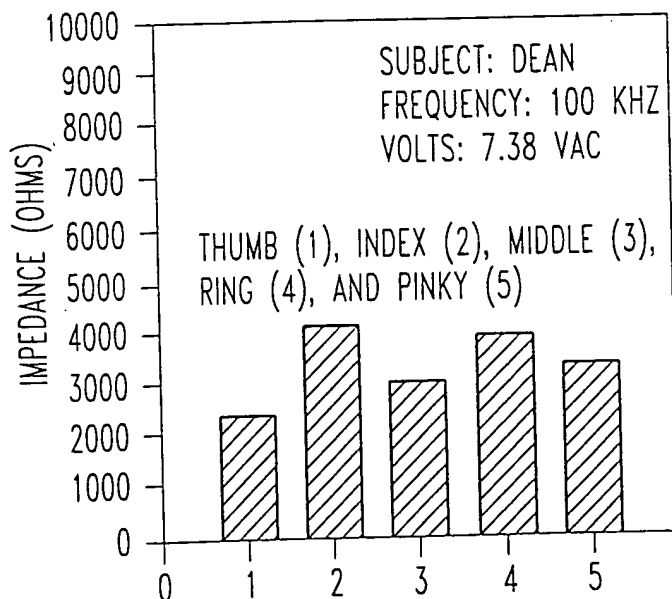
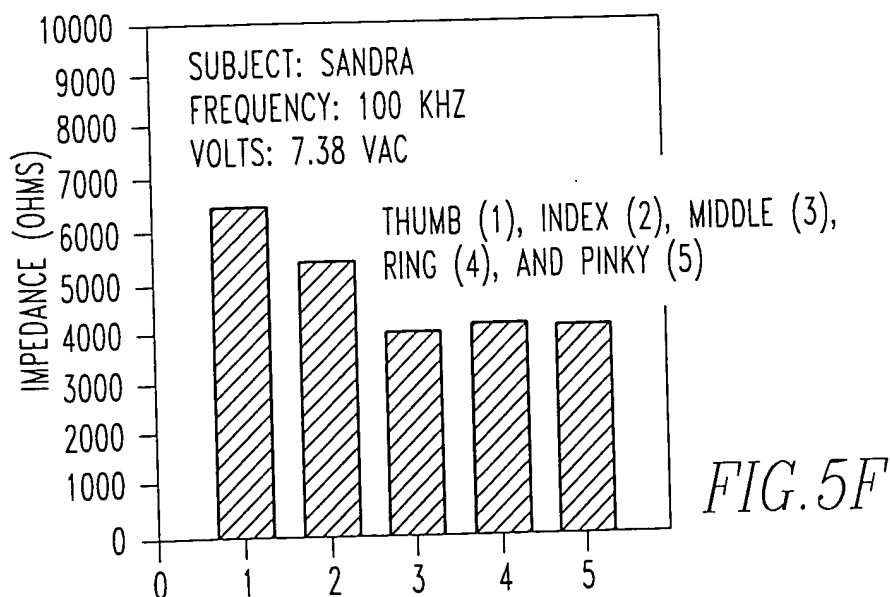
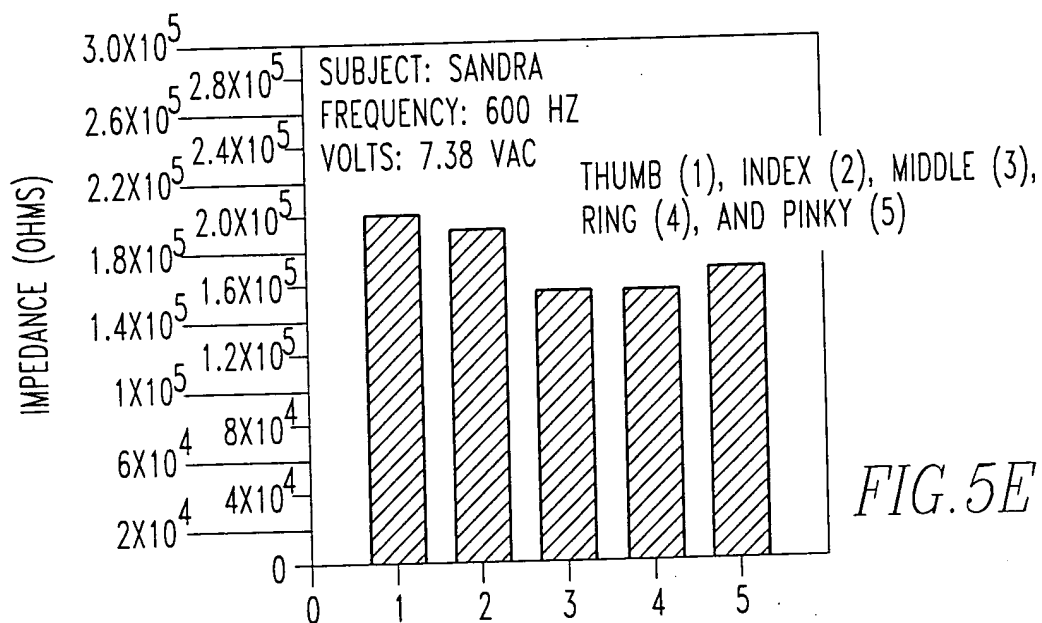
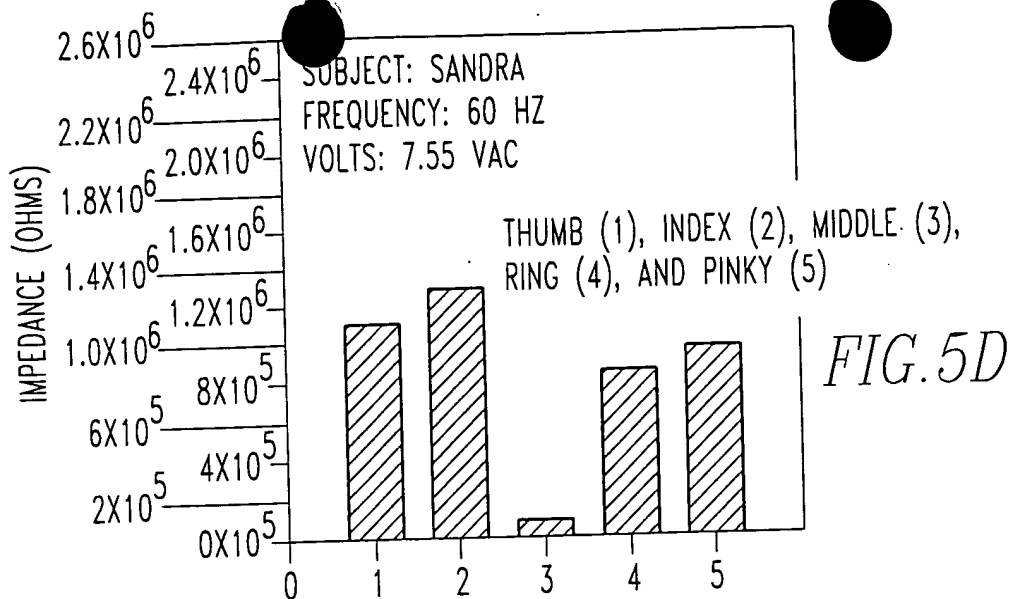


FIG. 5C



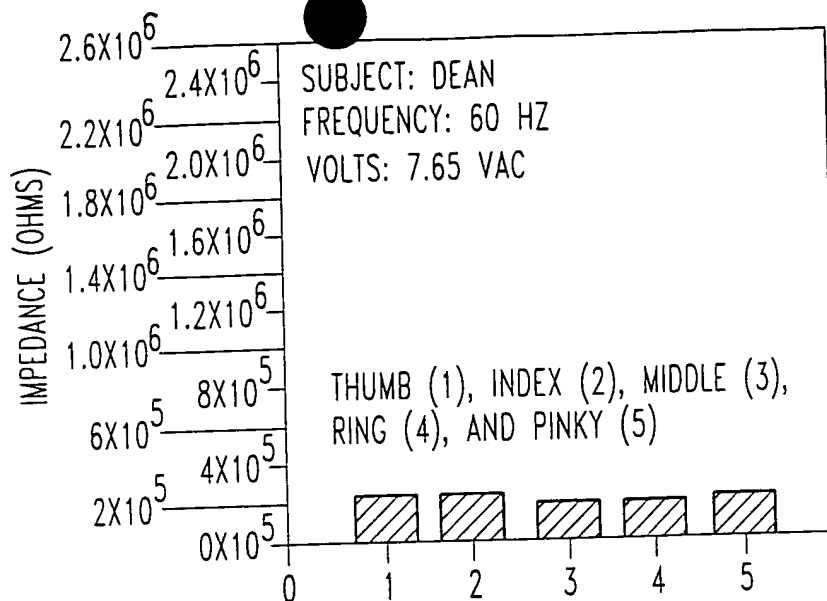


FIG. 6A

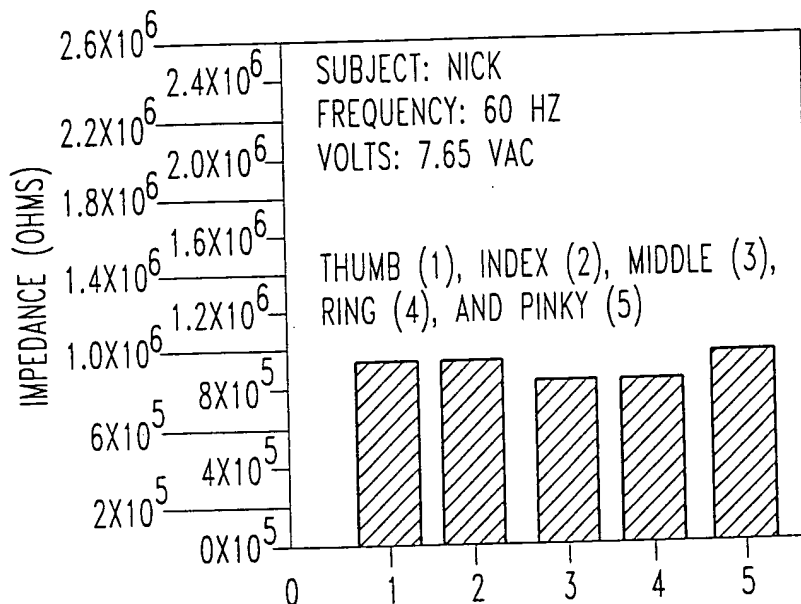


FIG. 6B

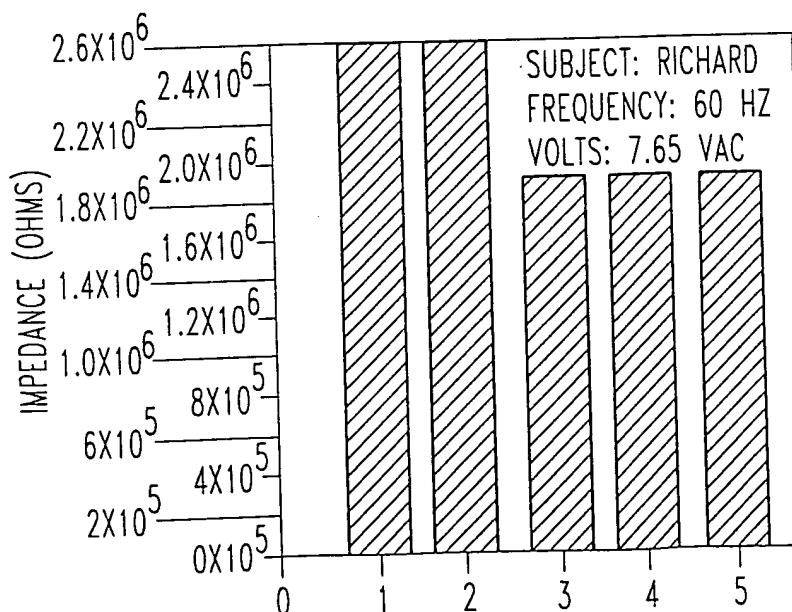


FIG. 6C

THUMB (1), INDEX (2), MIDDLE (3),
RING (4), AND PINKY (5)

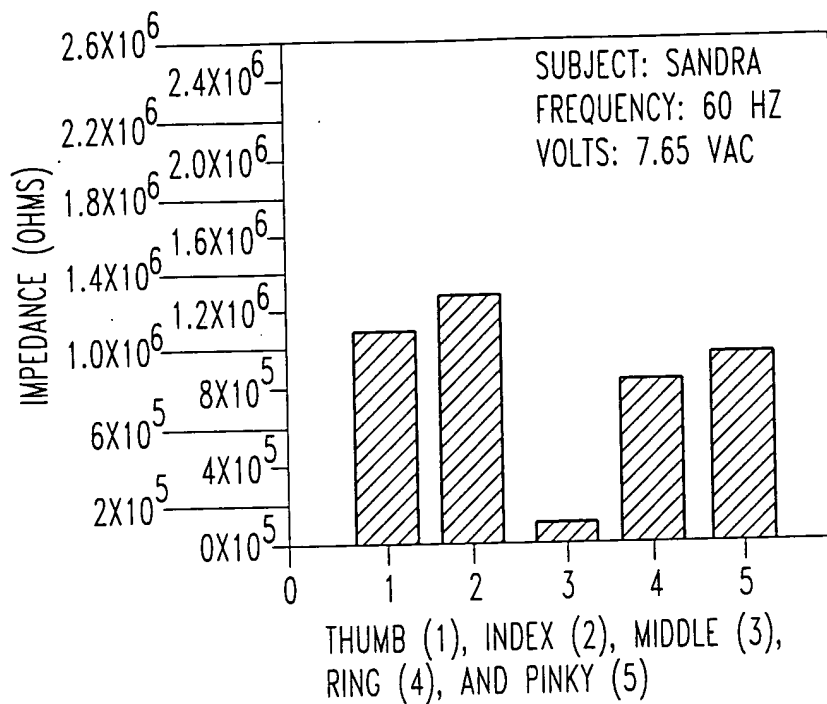


FIG. 6D

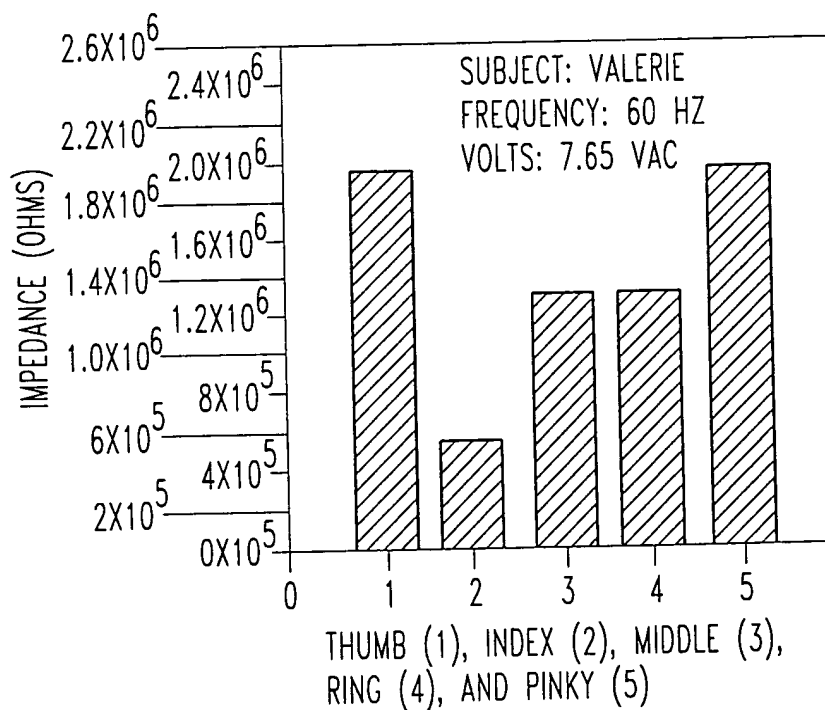


FIG. 6E

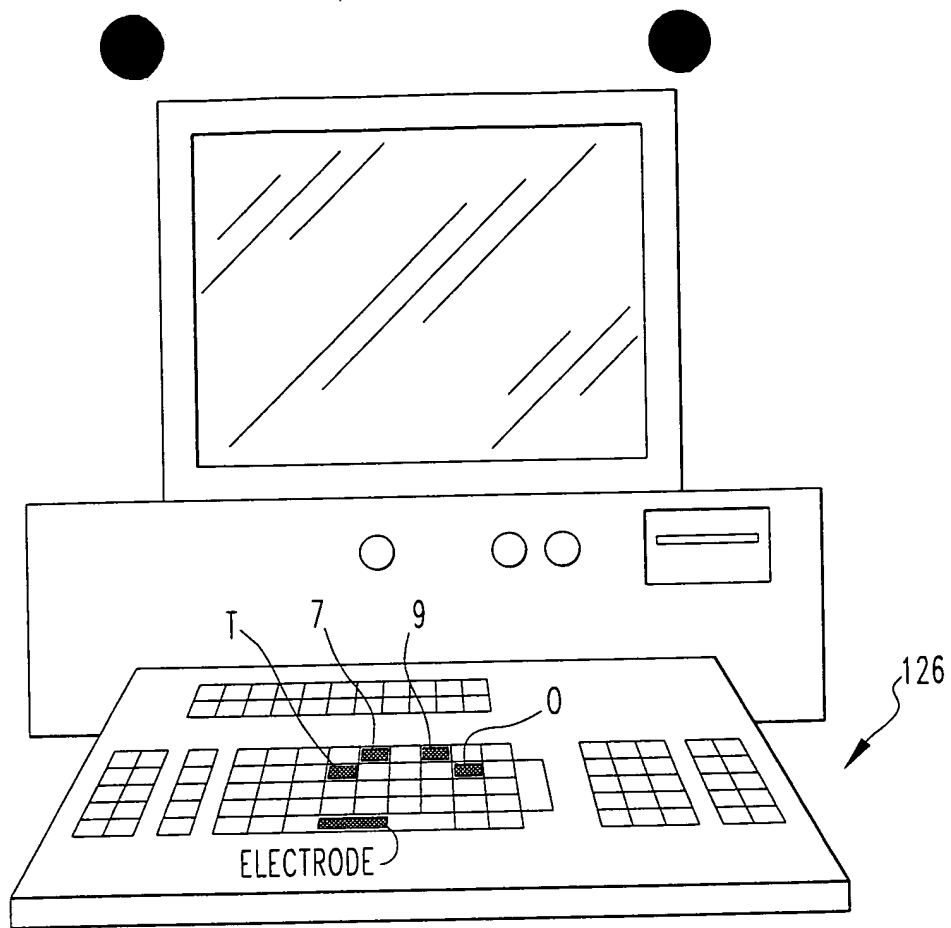


FIG. 7

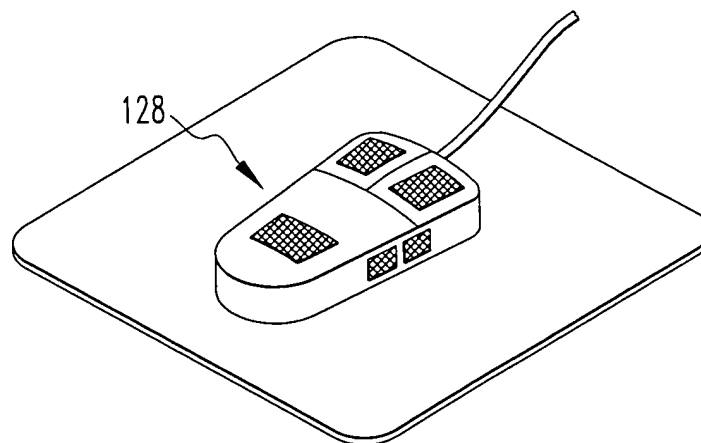


FIG. 8

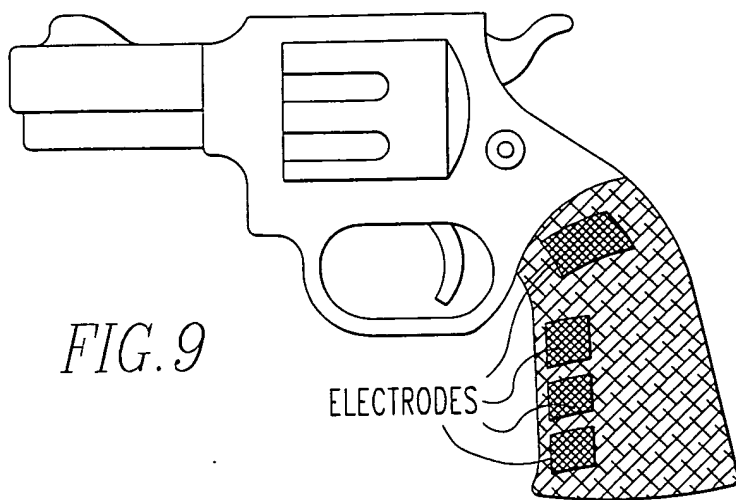


FIG. 9

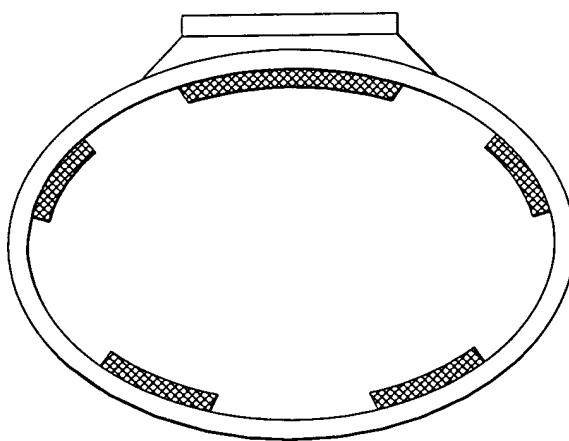


FIG 10

PROVIDING ENERGY TO
AN INDIVIDUAL LIVING
ORGANISM

DETECTING A CHARACTERISTIC
OF THE ORGANISM FROM
THE ENERGY

FIG.11

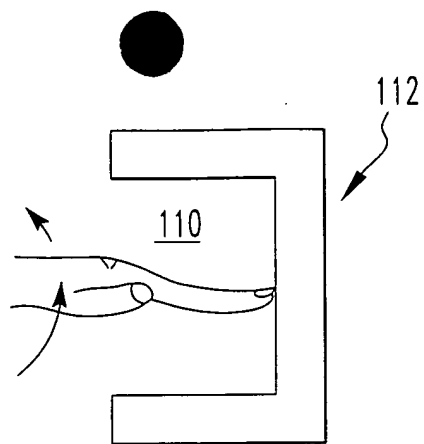


FIG. 12a

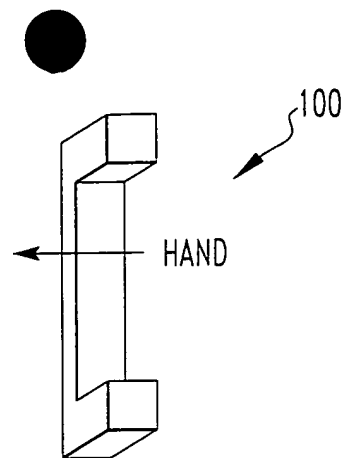
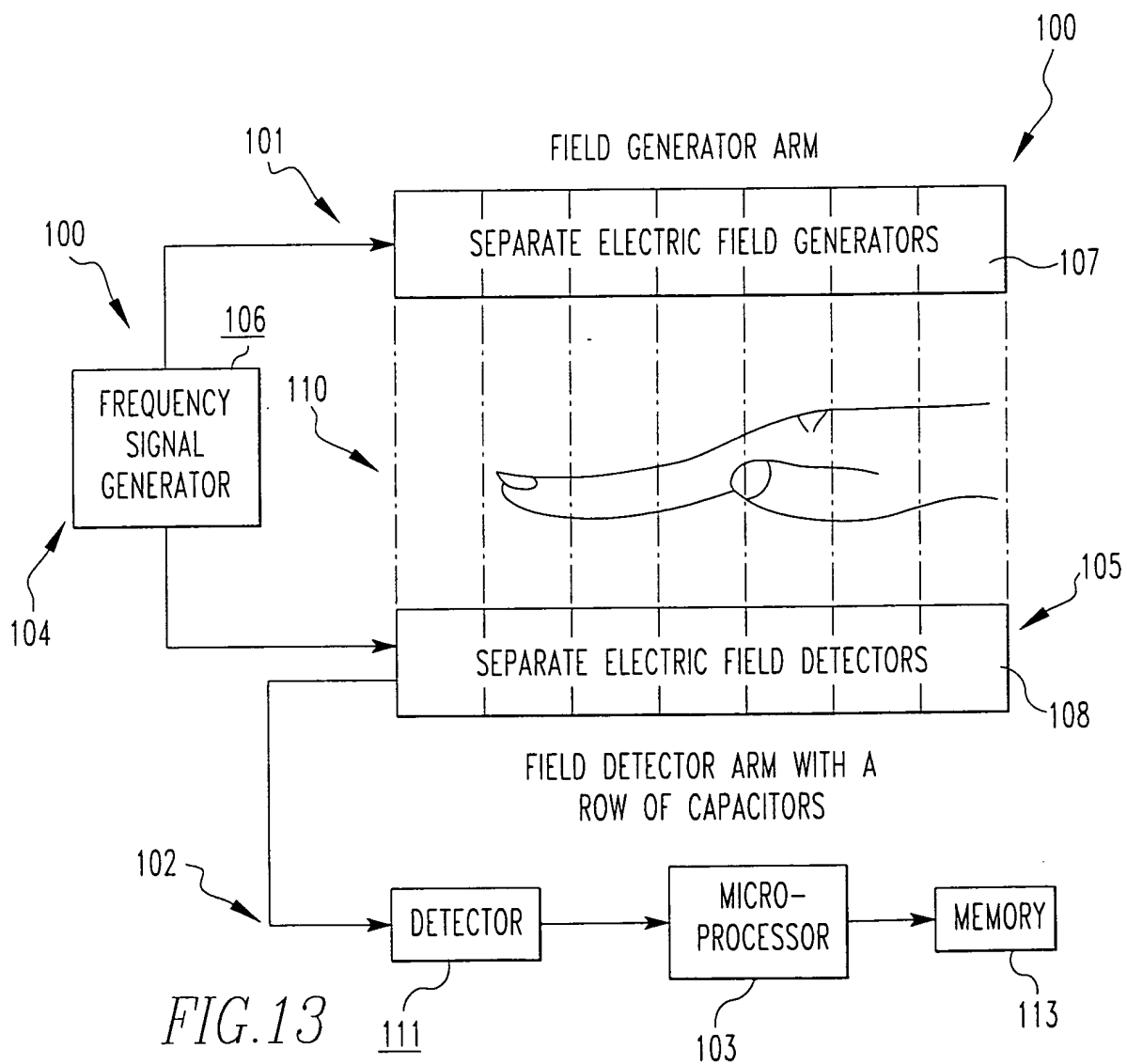
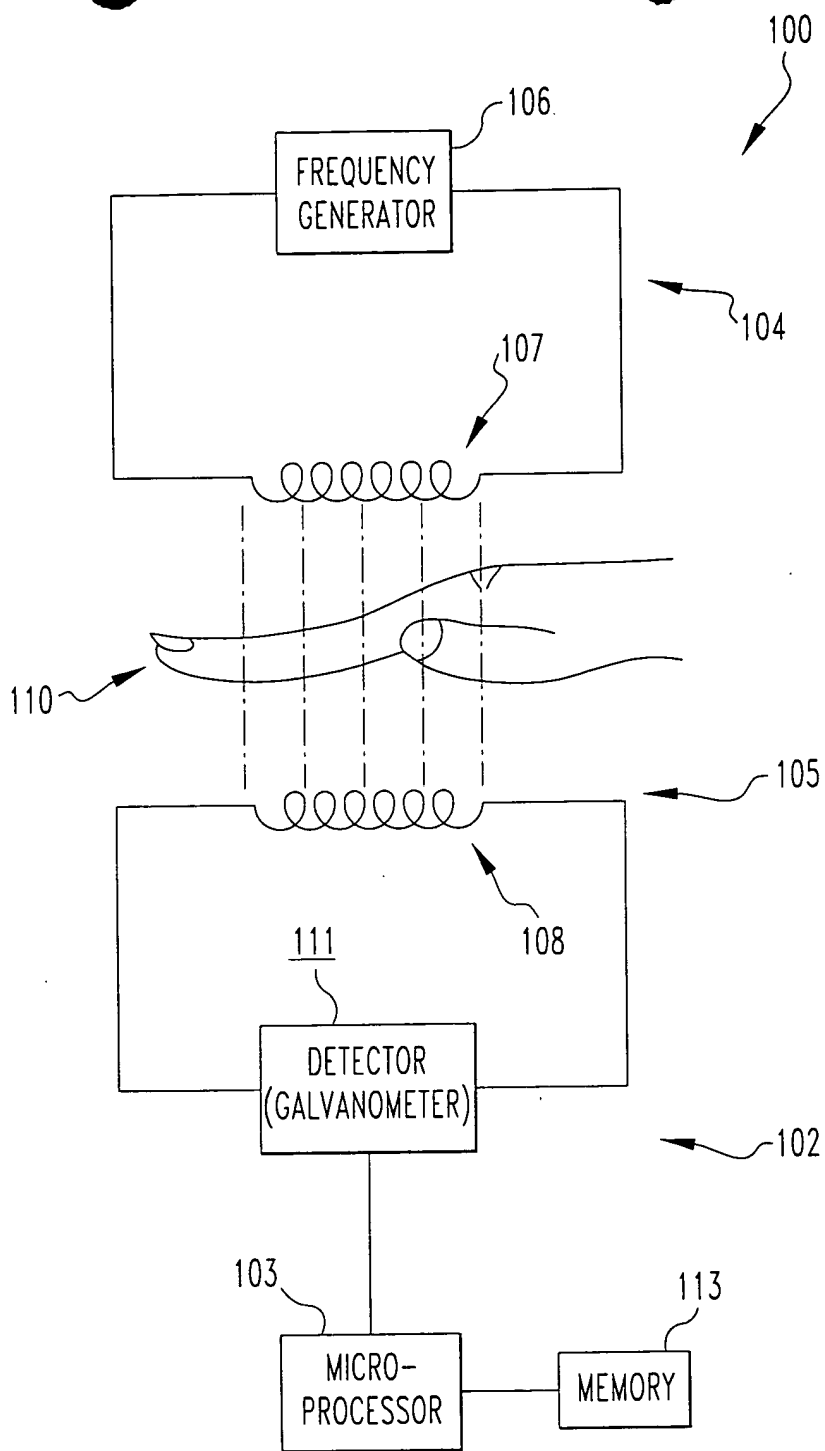


FIG. 12b





DETECTOR CAN BE A PHASE SENSITIVE DETECTOR

FIG.14

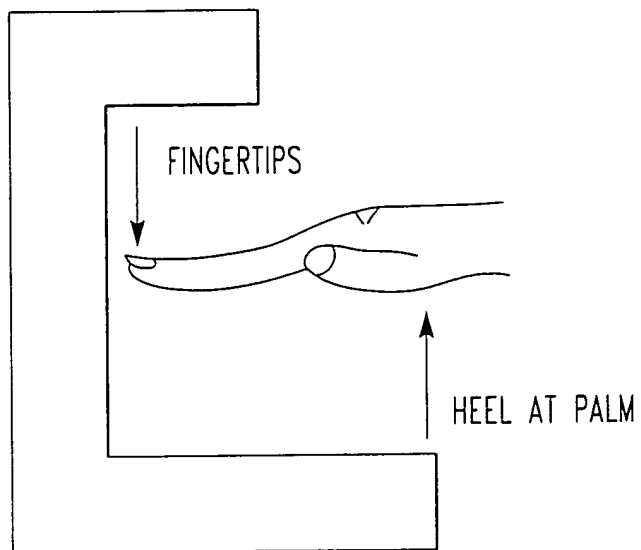


FIG.15

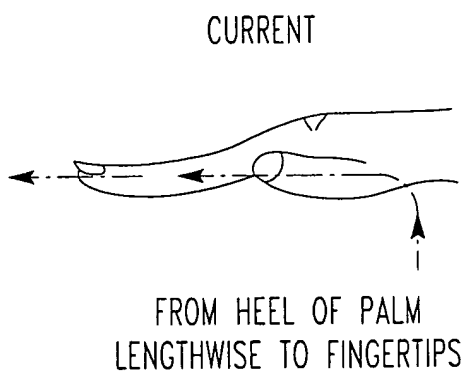


FIG.16

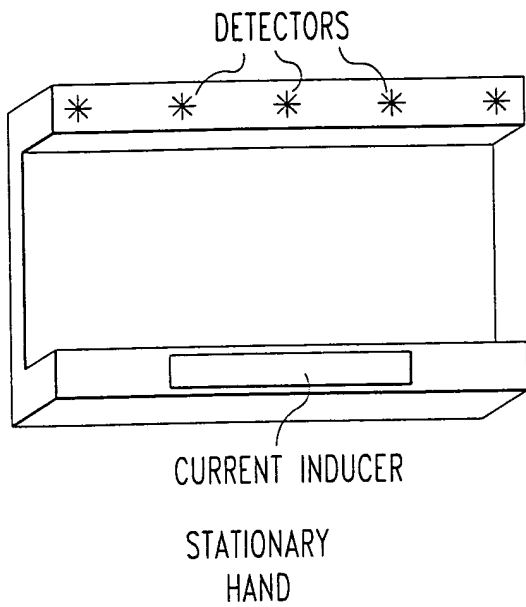


FIG. 17a

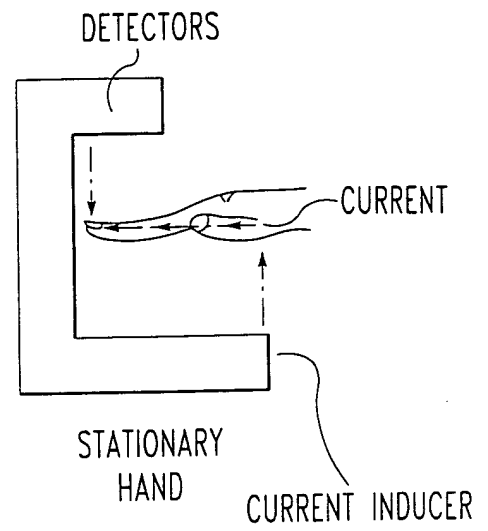


FIG. 17b

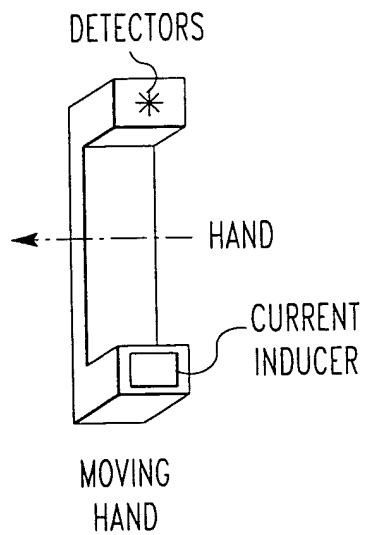


FIG. 18a

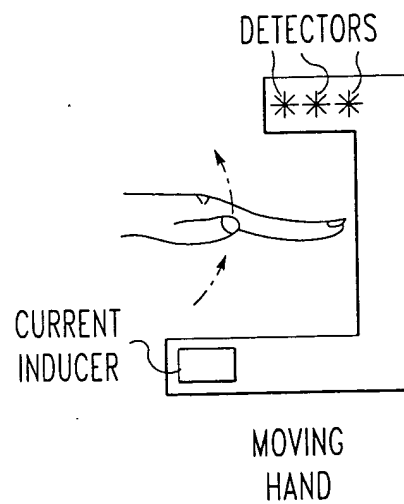
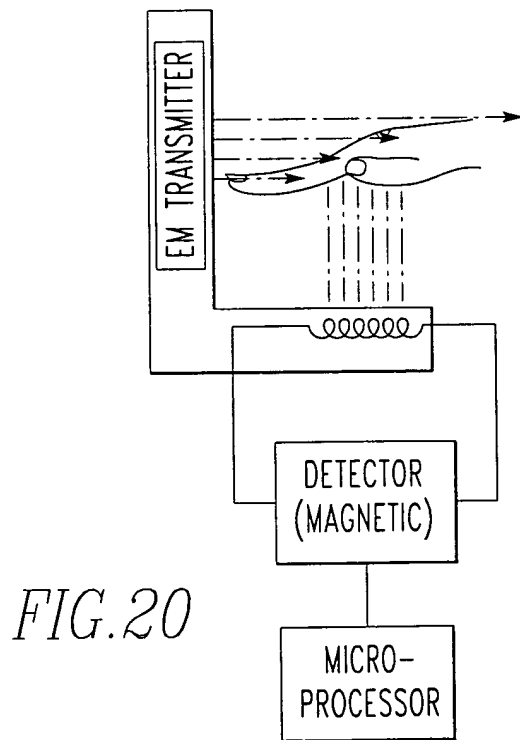
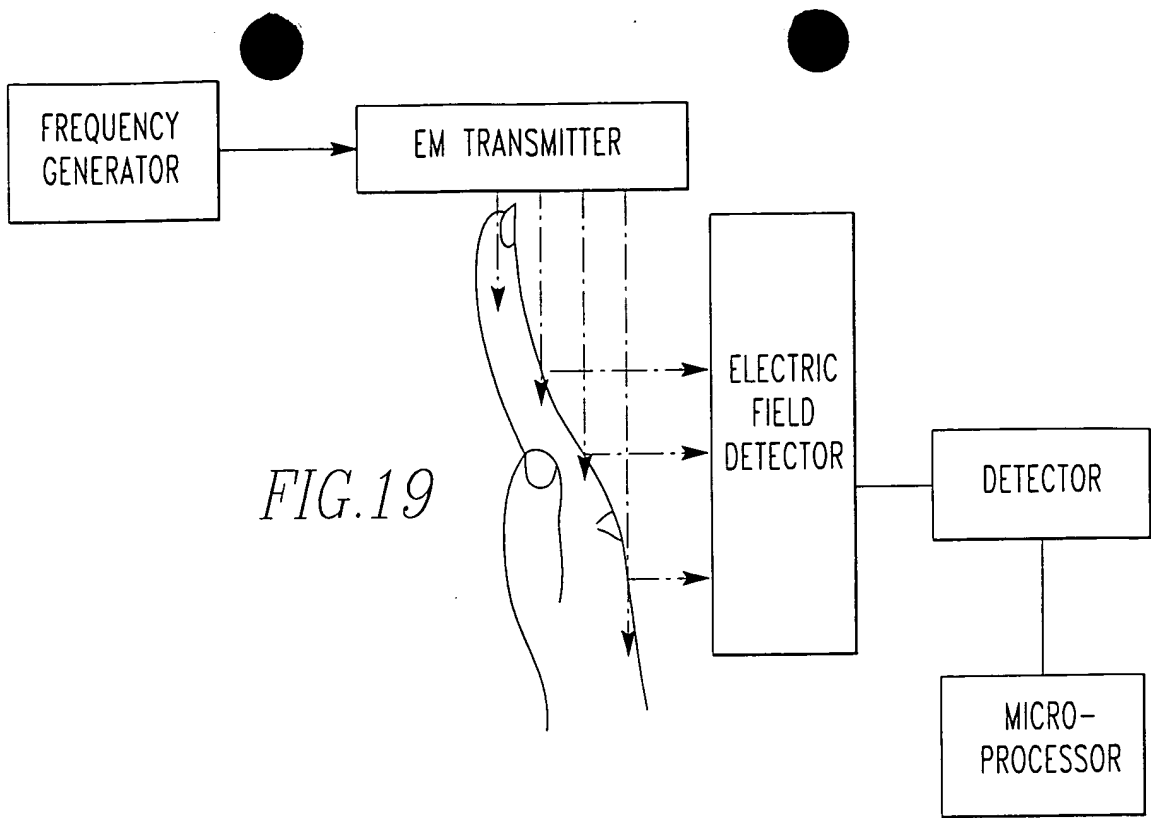


FIG. 18b



DETECTOR CAN MEASURE PHASE, AMPLITUDE, FREQUENCY, WAVE FORM, ETC.

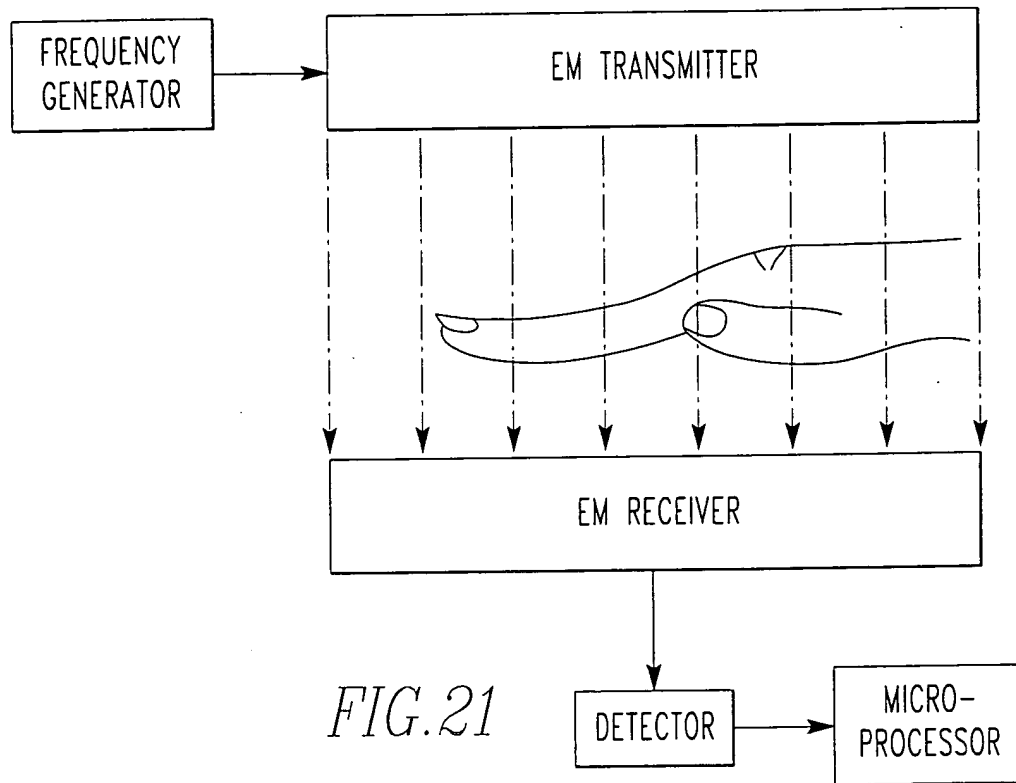
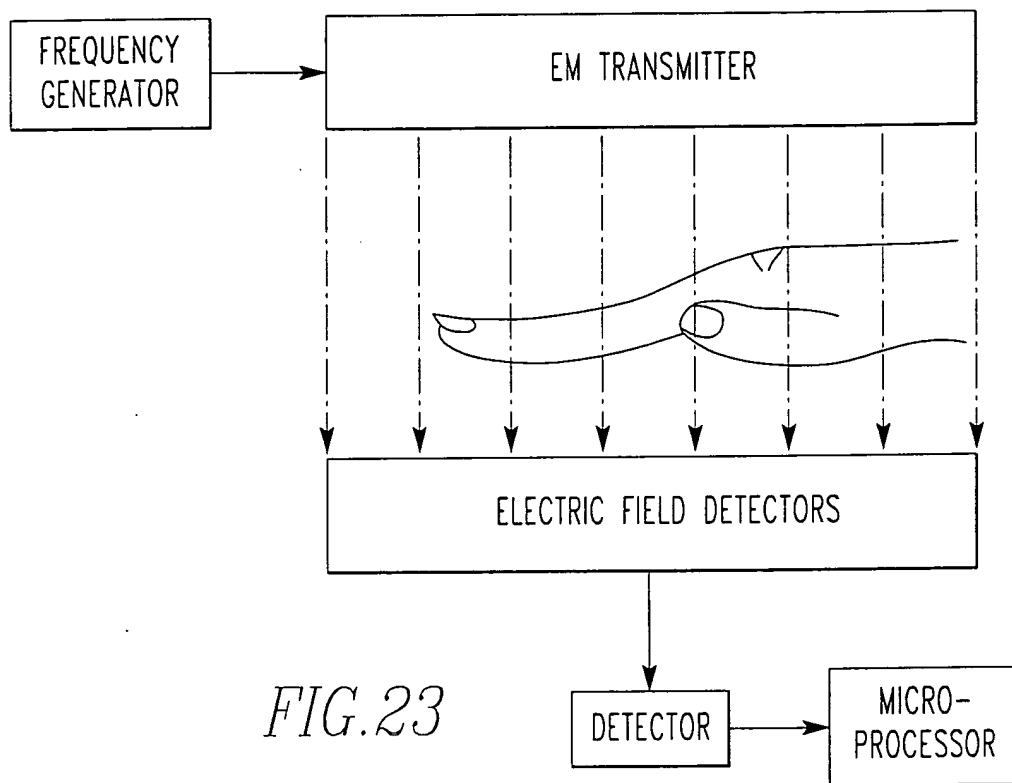
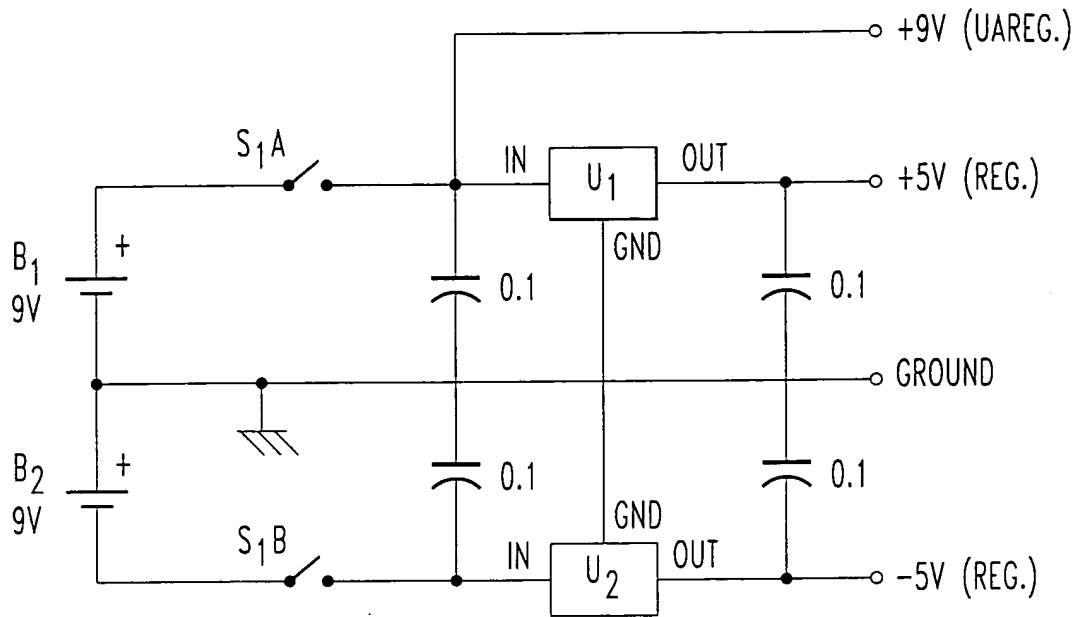


FIG. 21

FIG. 22





$U_1 = 78\text{LOSACL P}$

POSITIVE 5 VOLT REGULATOR

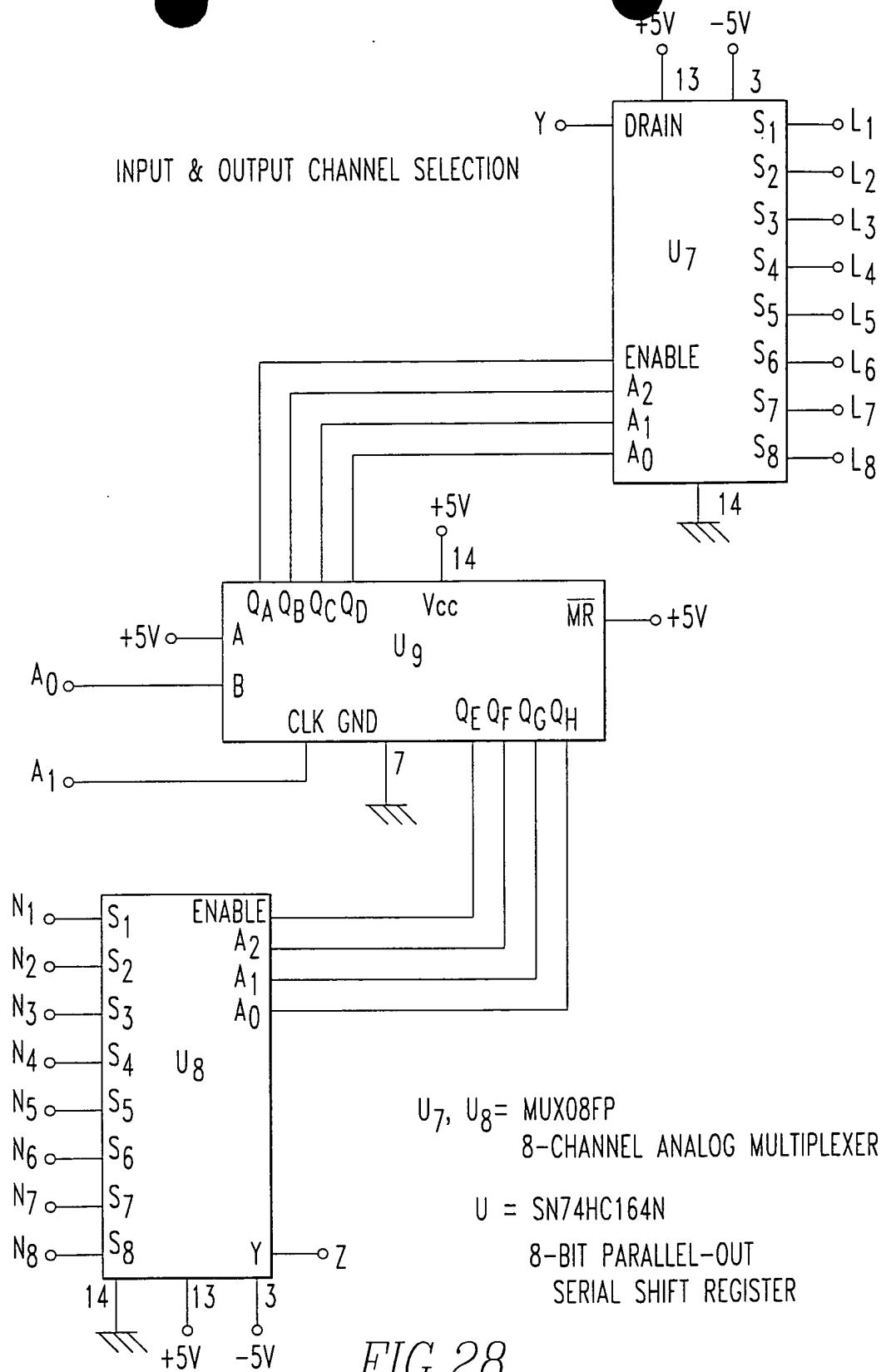
$U_2 = 79\text{LOSCL P}$

NEGATIVE 5 VOLT REGULATOR

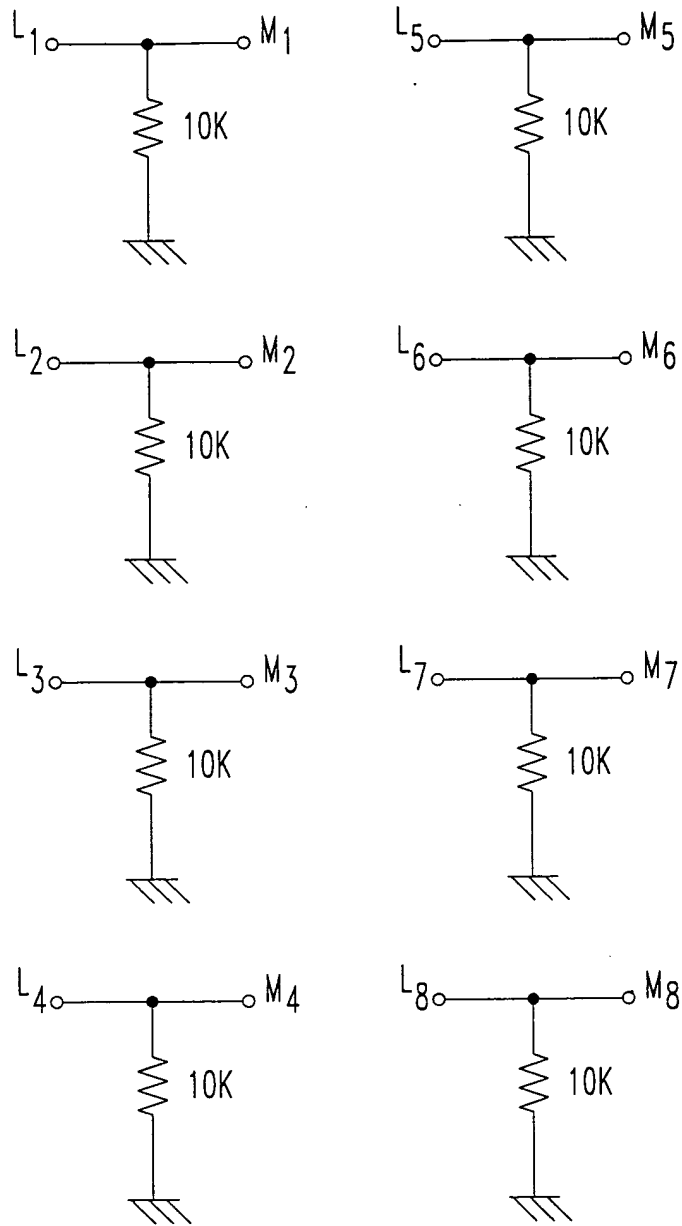
$S_1 = \text{DPST}$

POWER SUPPLY REGULATORS

FIG.24



66343660



OUTPUT MUX LOAD RESISTORS

FIG.29

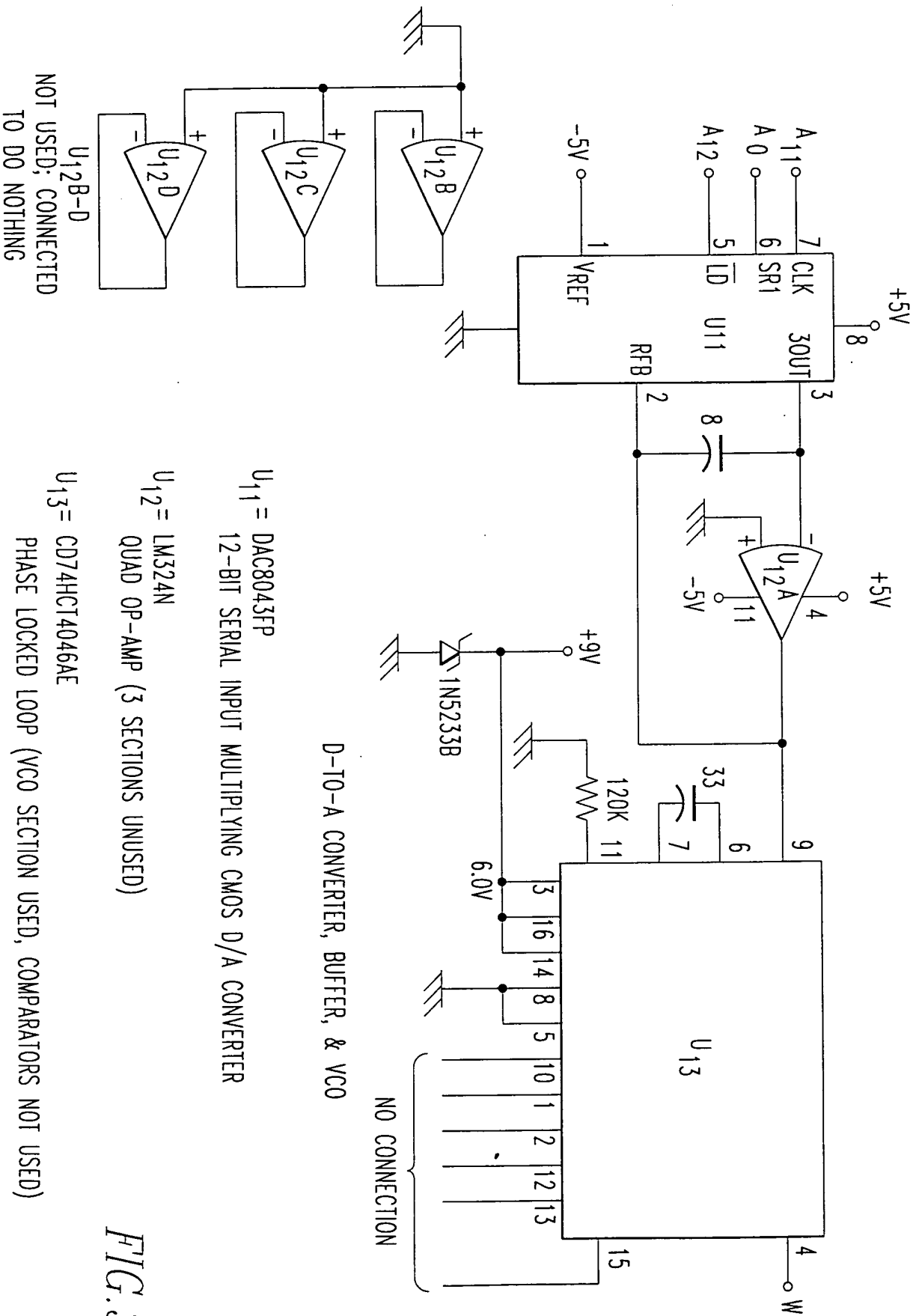
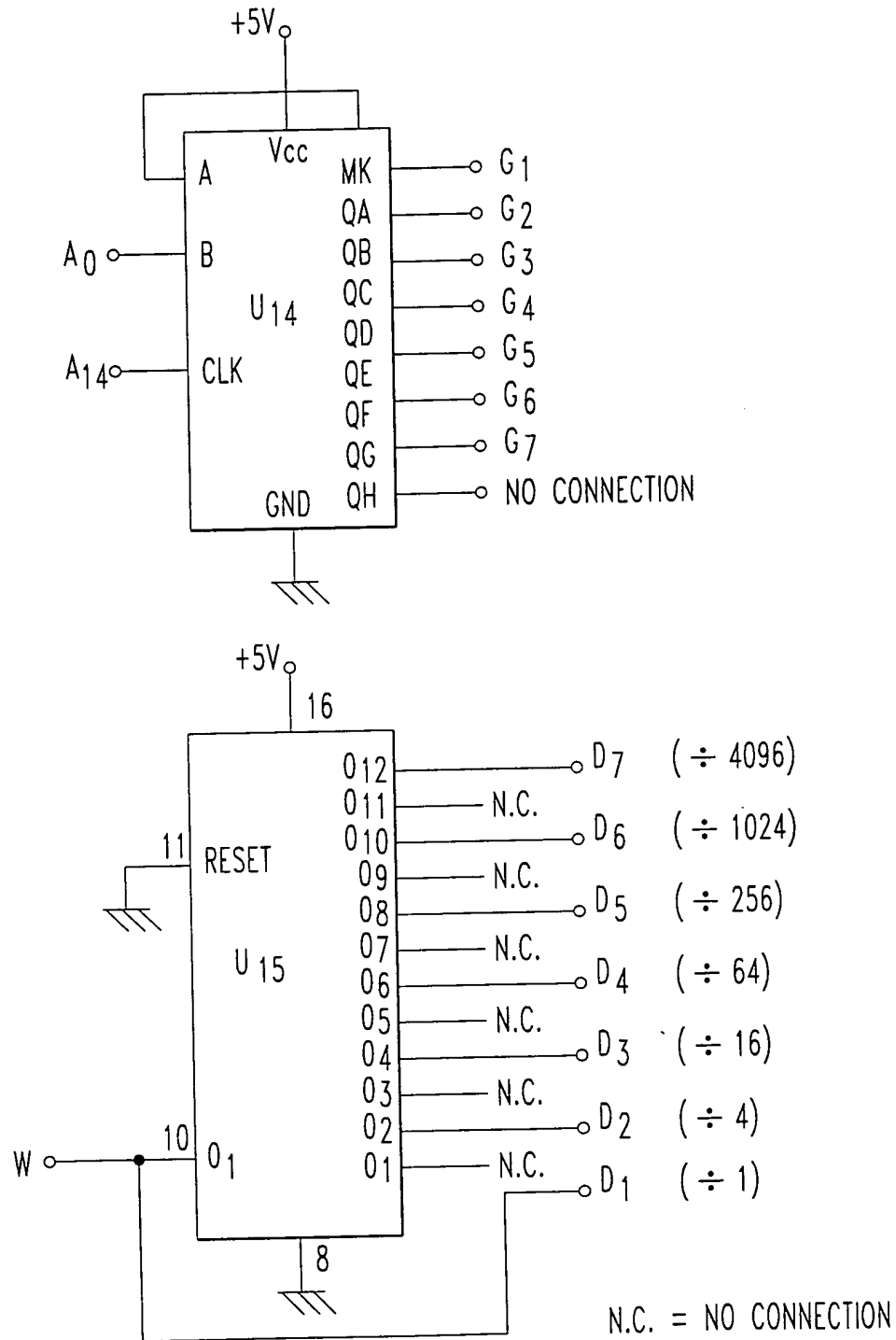


FIG. 31

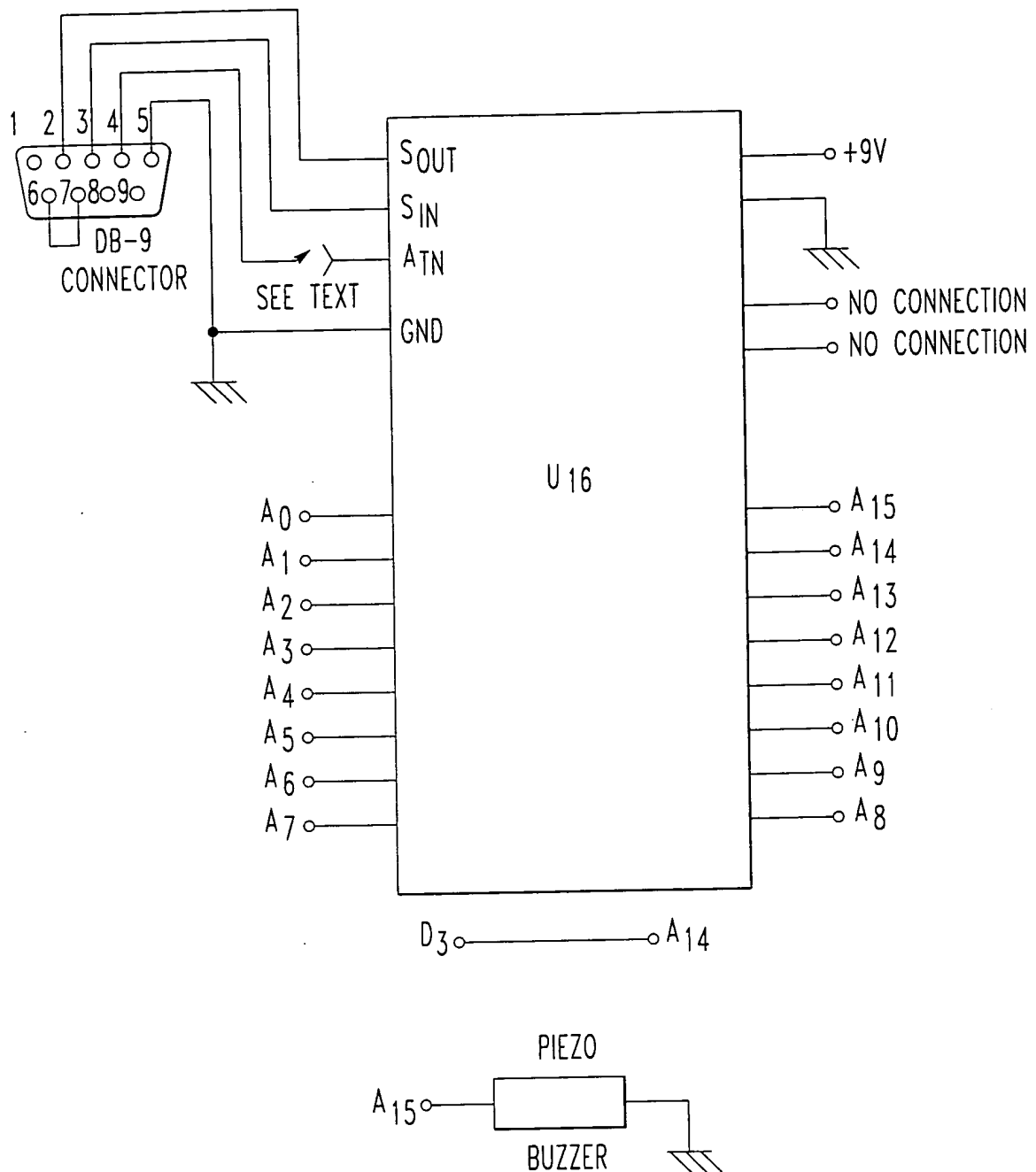
FREQUENCY DIVIDER & FREQUENCY DIVIDER GATE SHIFT REGISTER



U₁₄ = SN74HC164N
8-BIT PARALLEL-OUT SERIAL SHIFT REGISTER

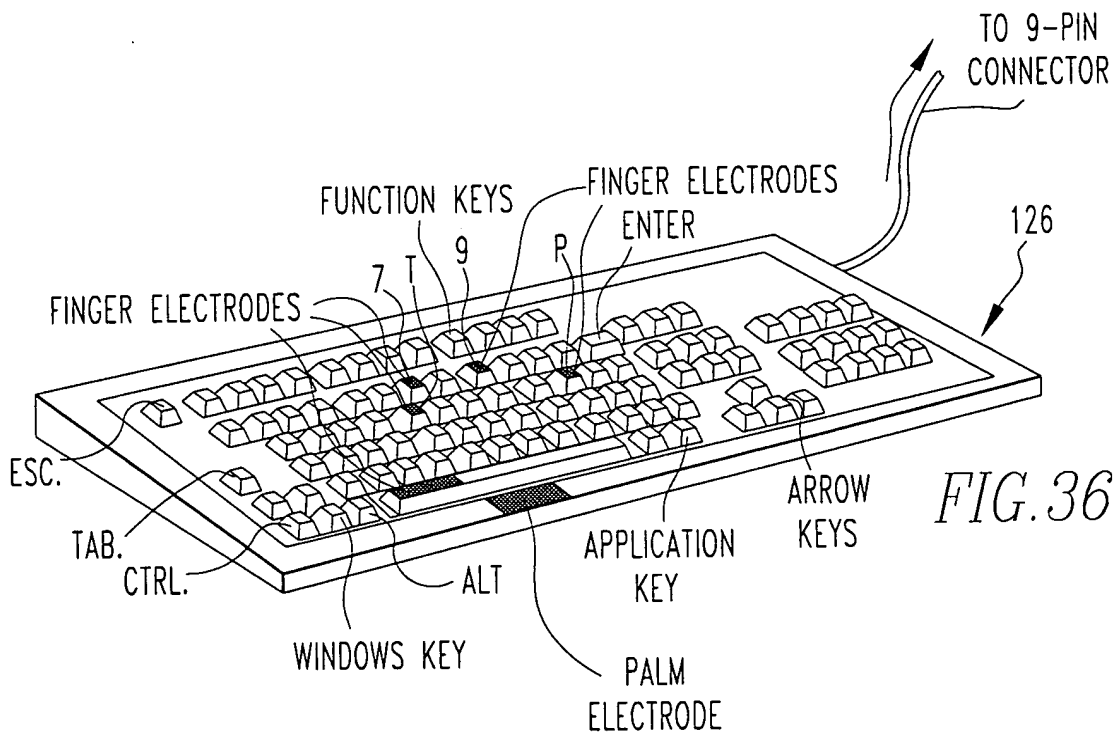
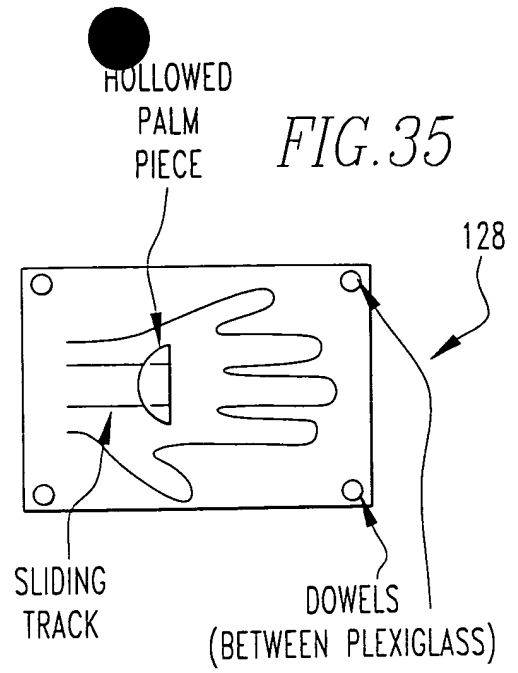
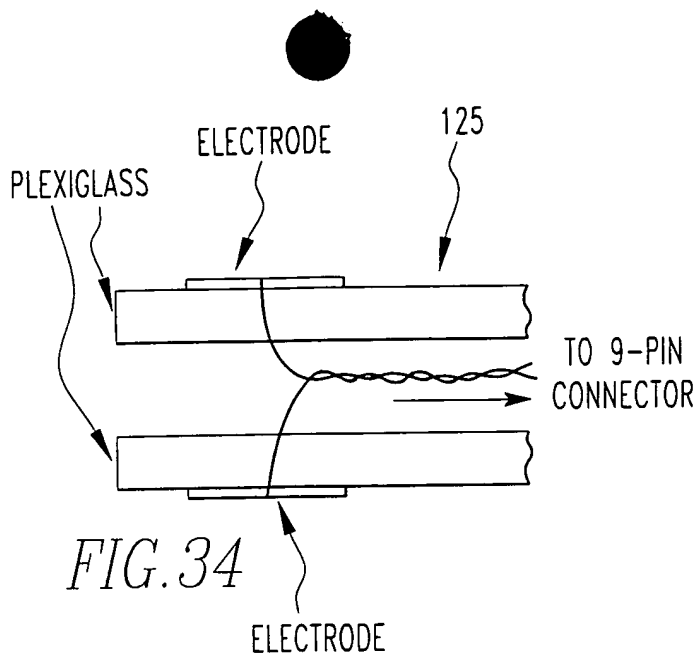
U₁₅ = 74HC4040
12-STAGE RIPPLE CARRY BINARY COUNTER

FIG.32



MICROPROCESSOR
 U₁₆ = PARALLAX, INC. BASIC STAMP II
 MICROCONTROLLER W/2048-BYTE EEPROM,
 26 BYTE RAM, 16 I/O LINES & SERIAL INTERFACE.

FIG.33



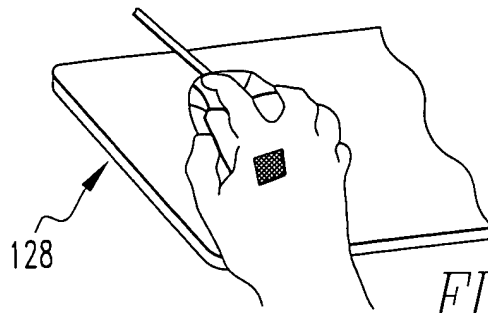


FIG. 37

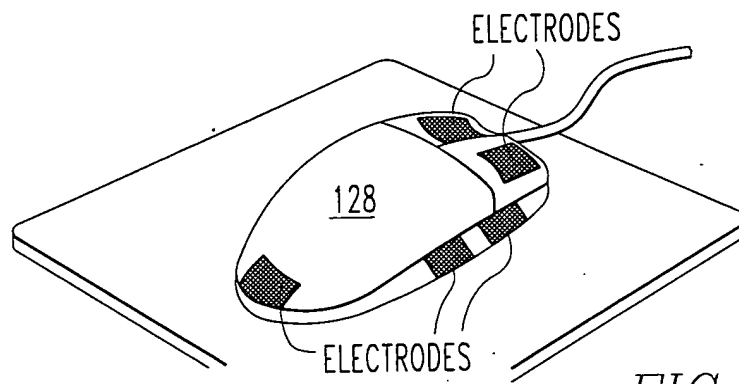


FIG. 38

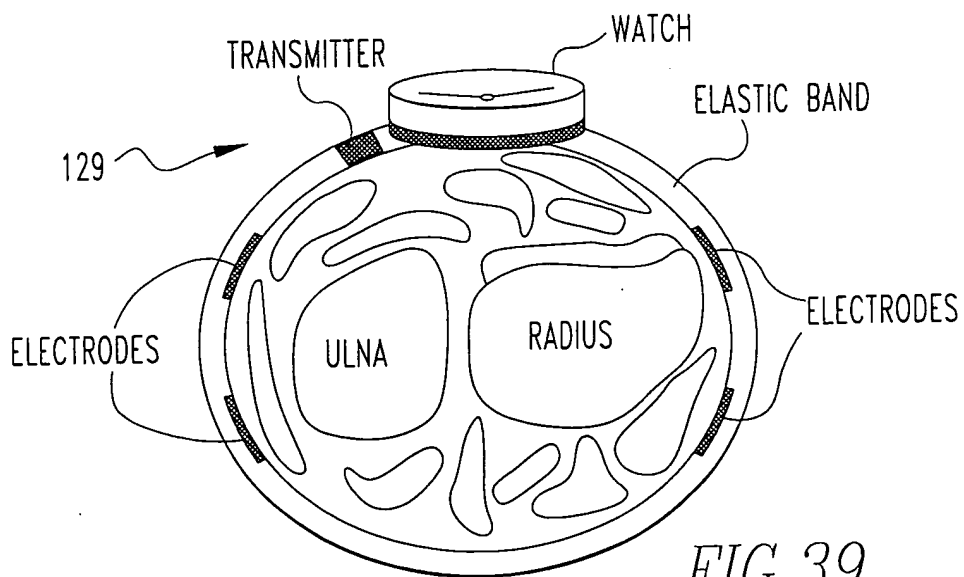


FIG. 39

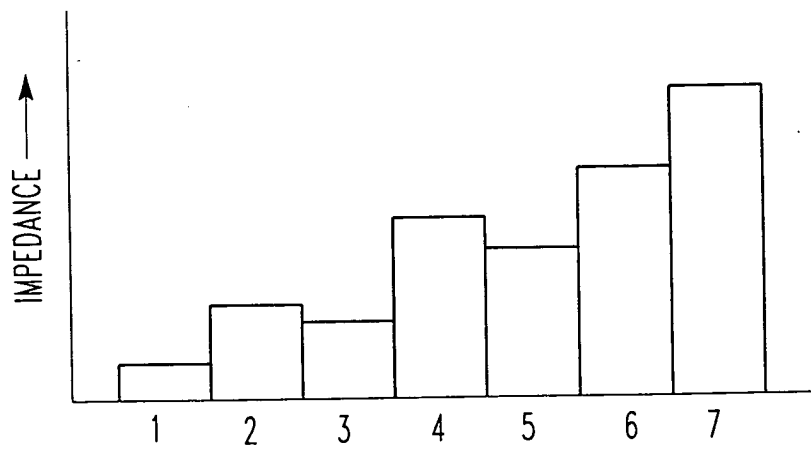
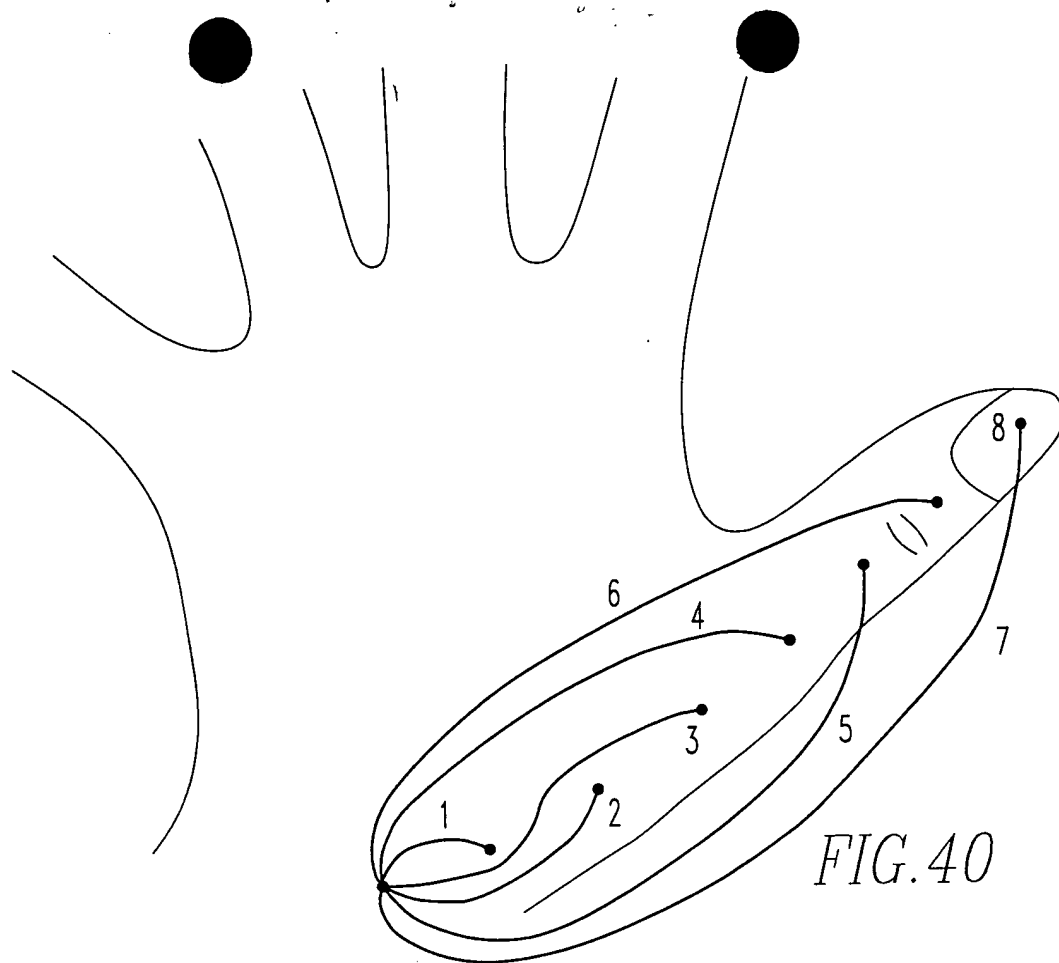


FIG. 41

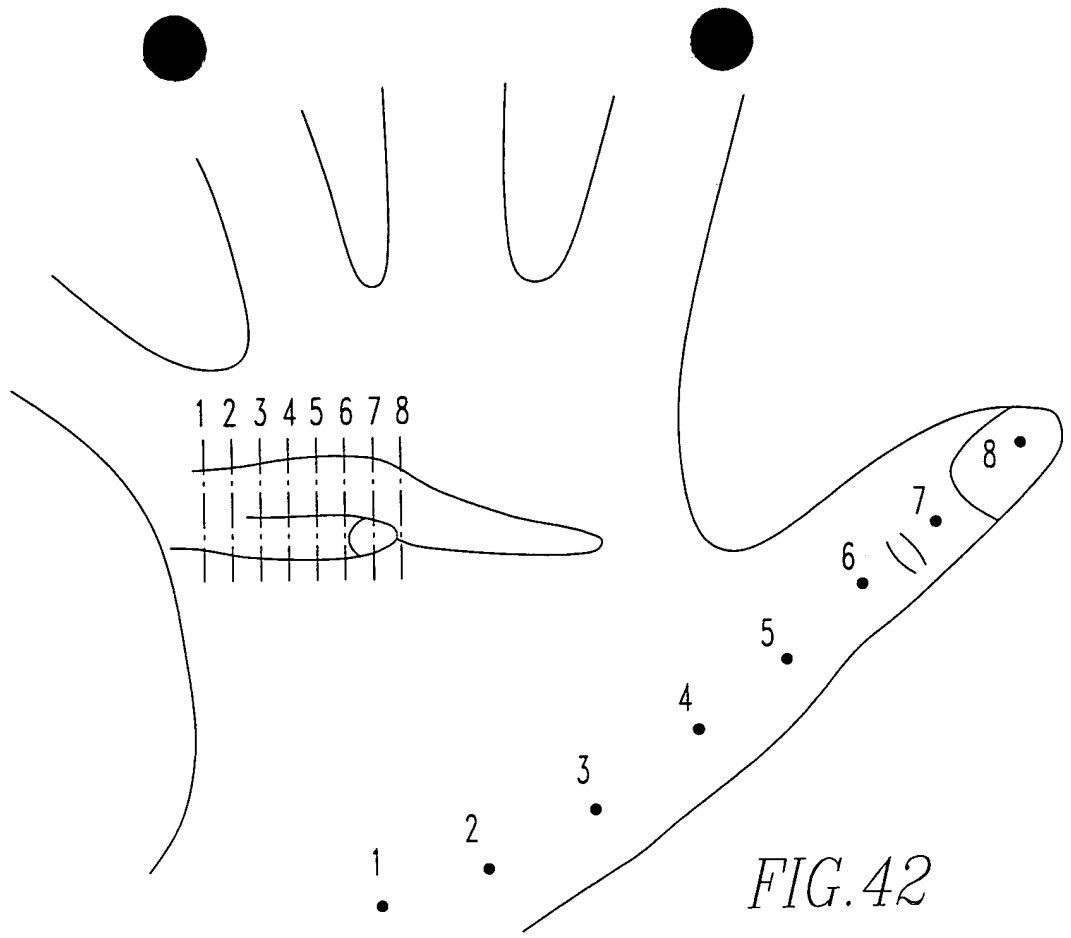


FIG.42

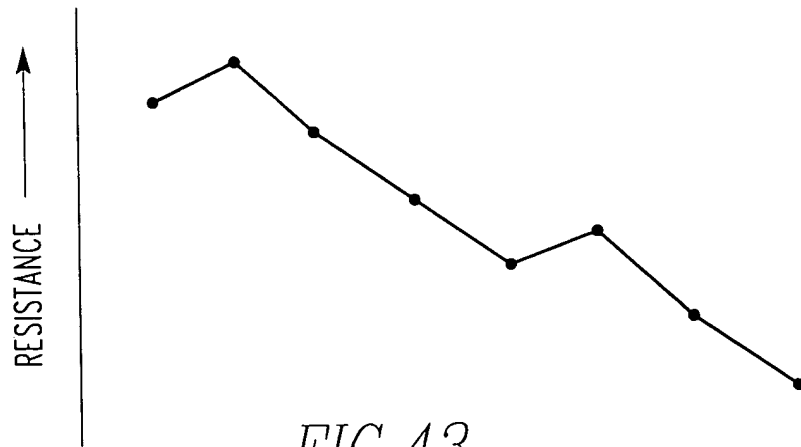


FIG.43

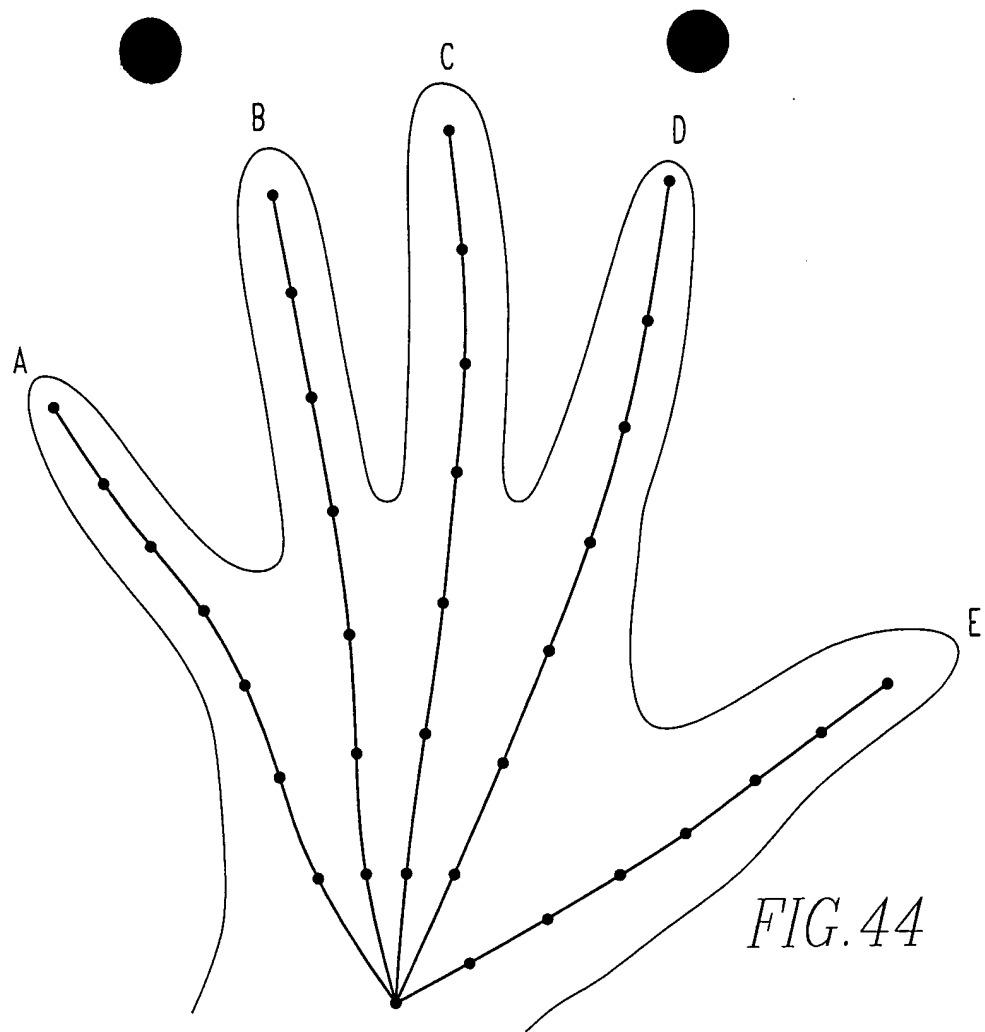


FIG. 44

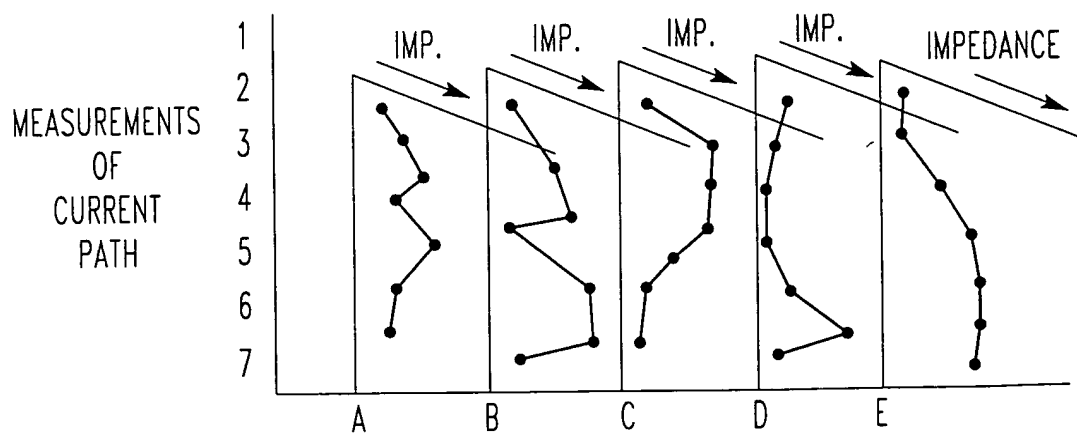


FIG. 45

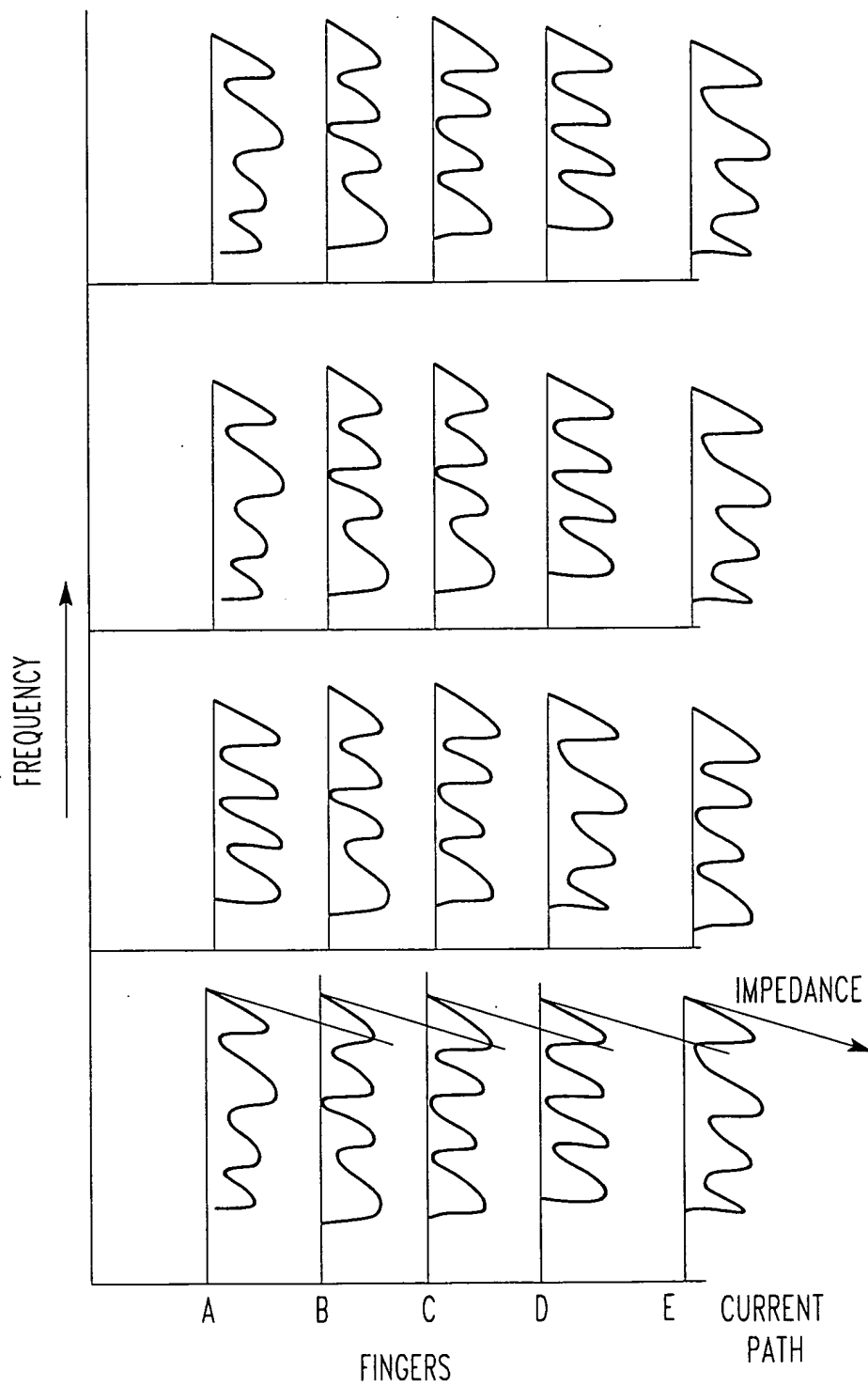


FIG. 46

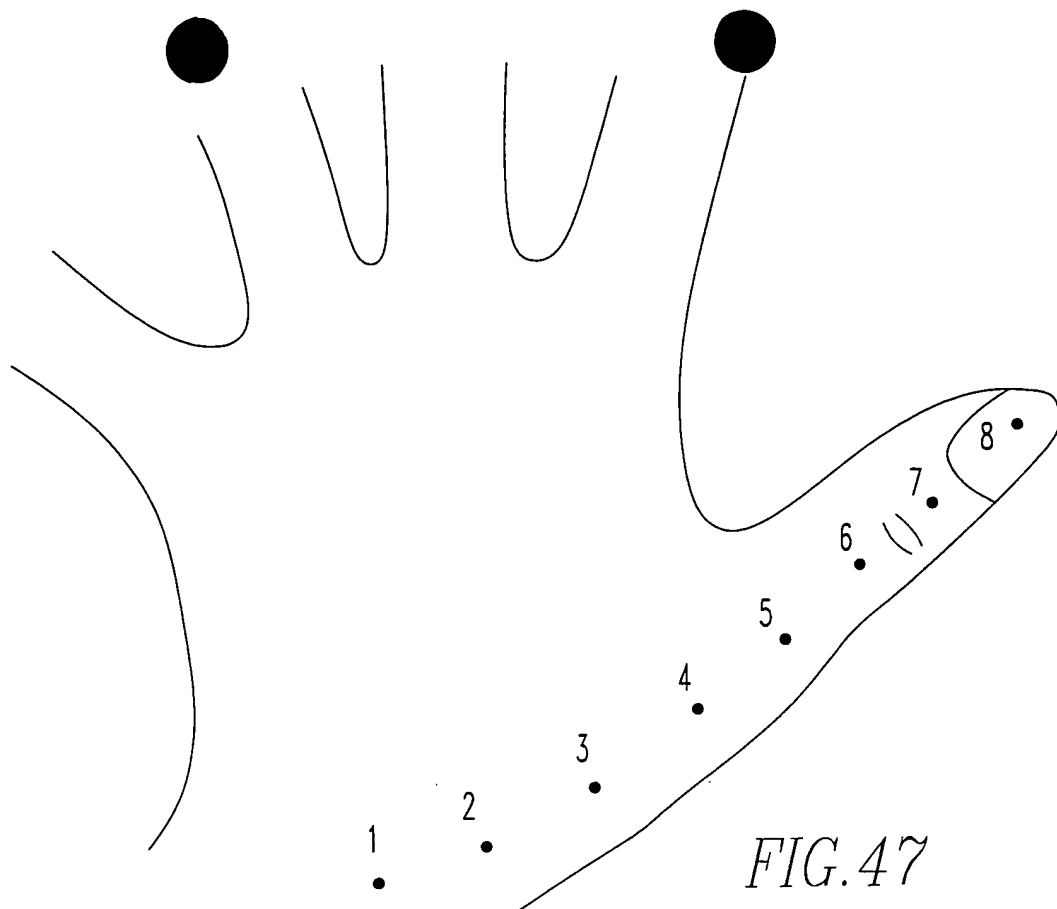


FIG.47

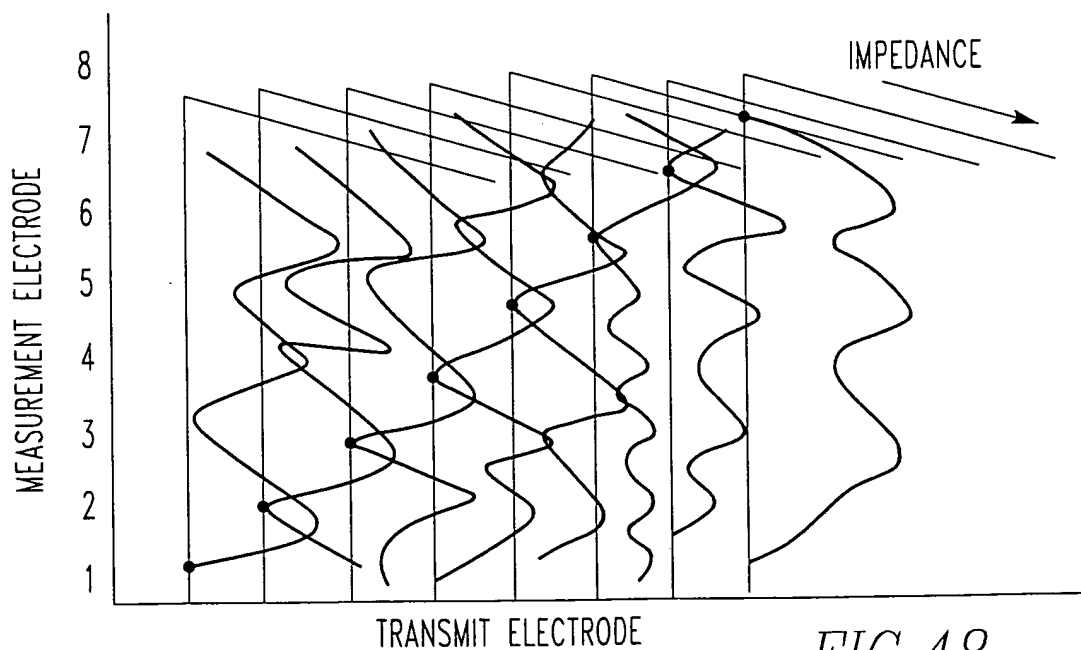


FIG.48

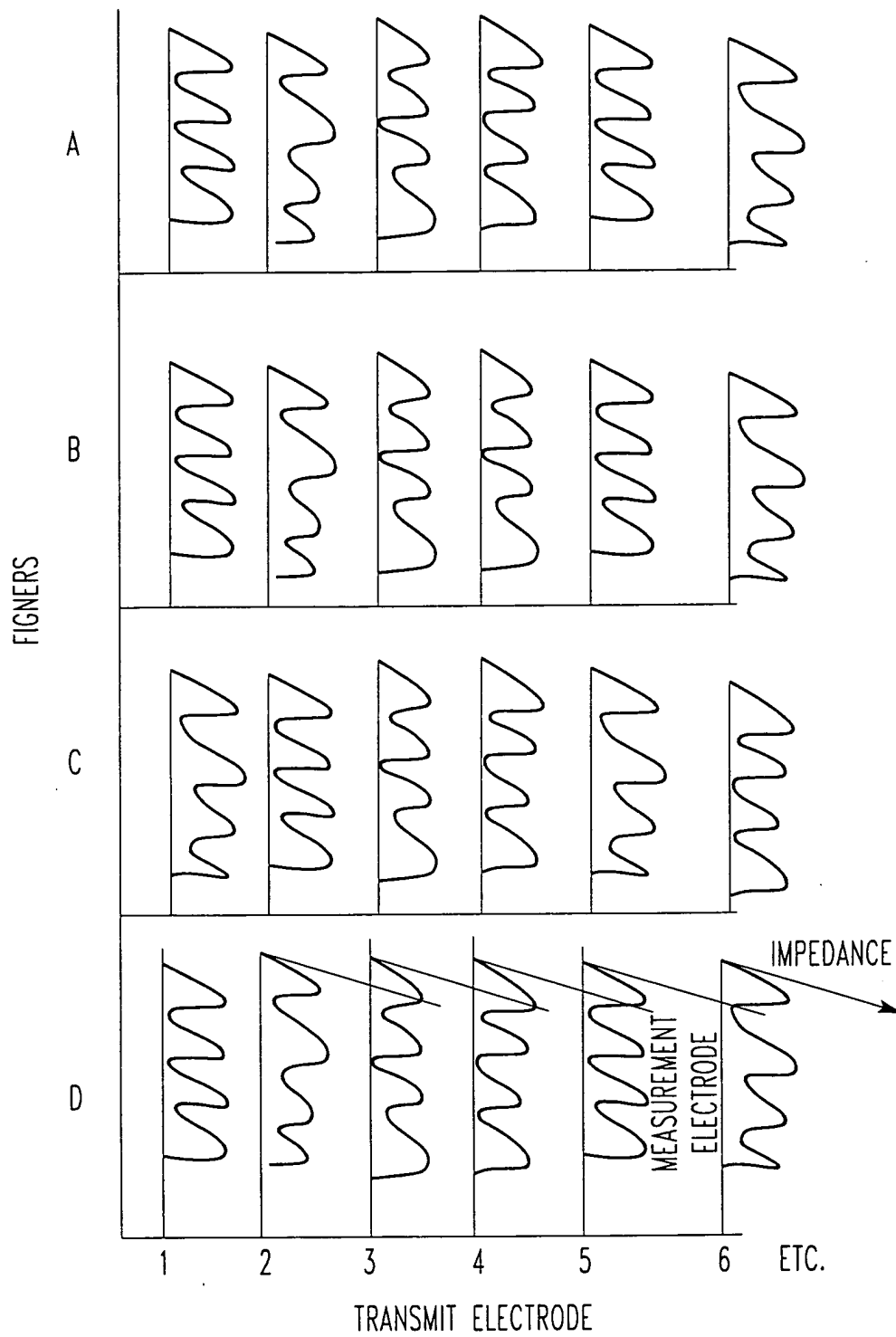


FIG. 49

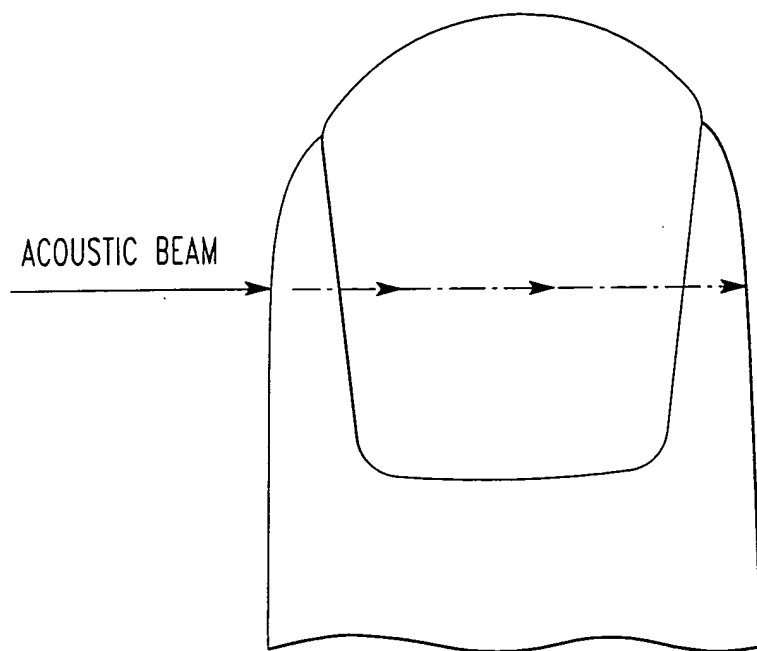


FIG.50

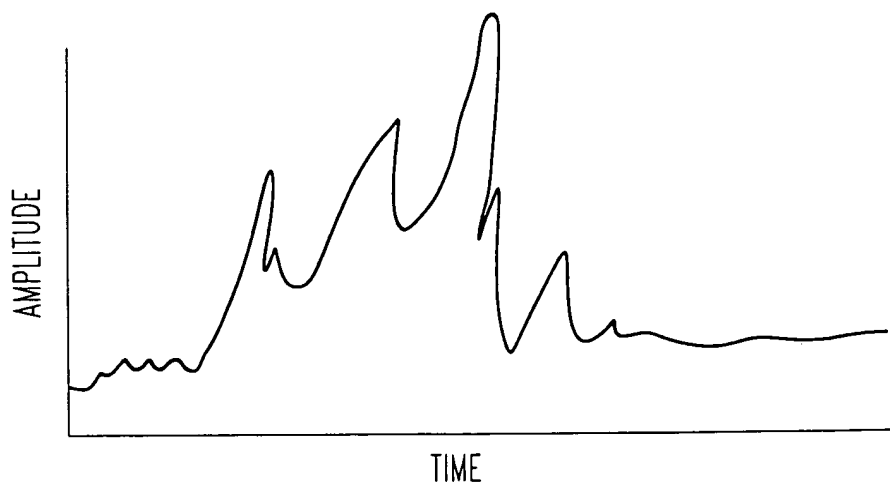


FIG.51

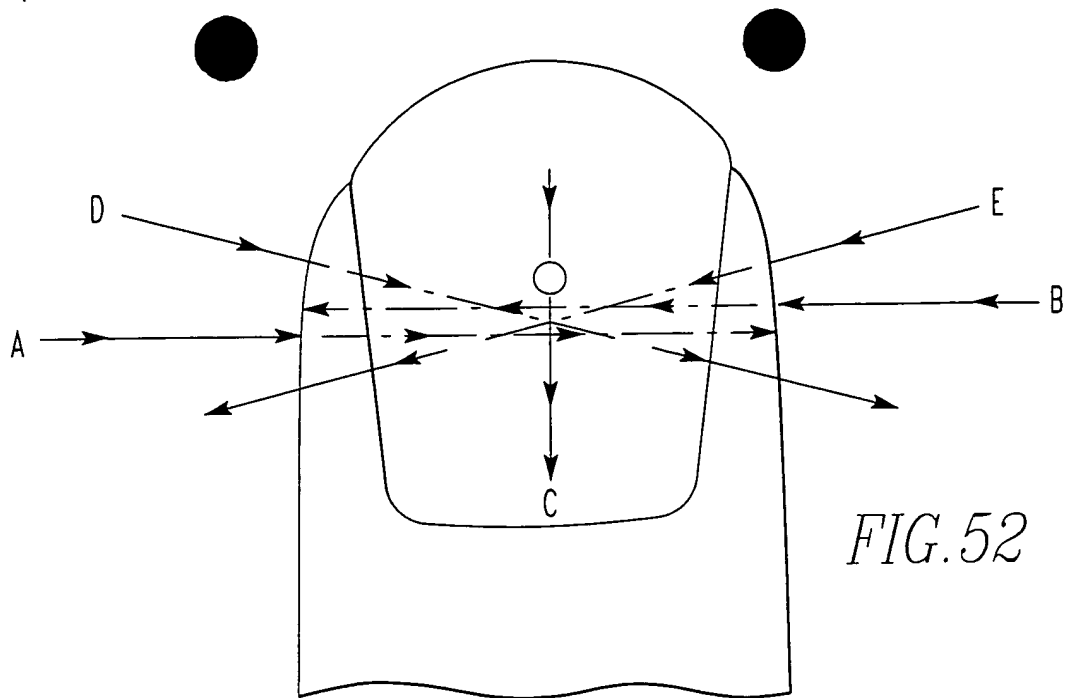


FIG. 52

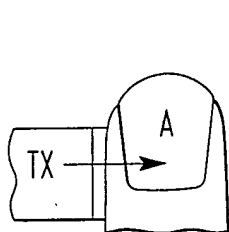


FIG. 52a

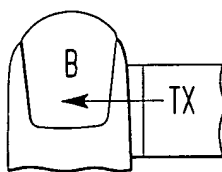


FIG. 52b



FIG. 52c

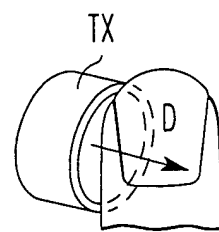


FIG. 52d

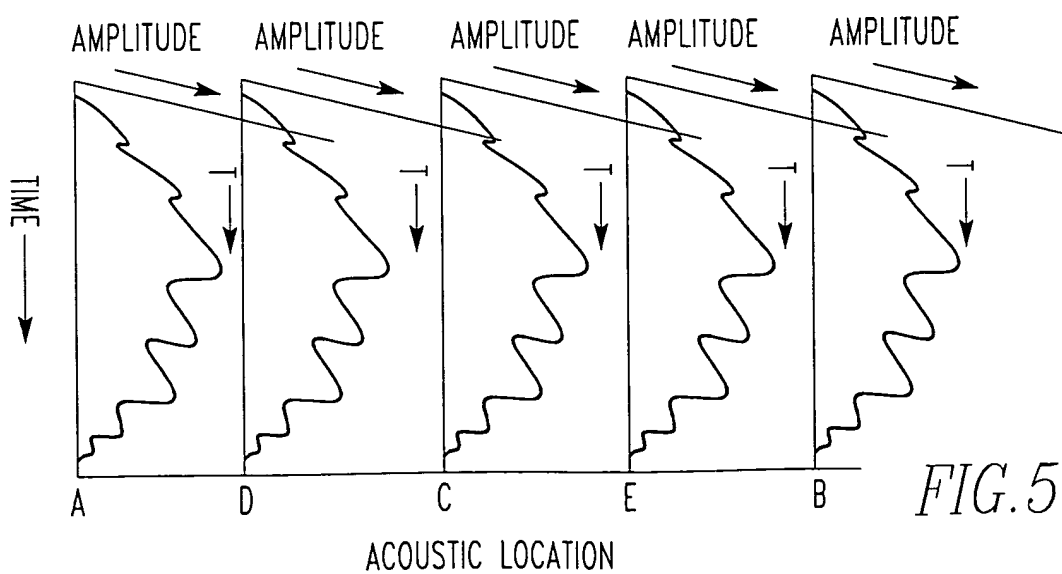
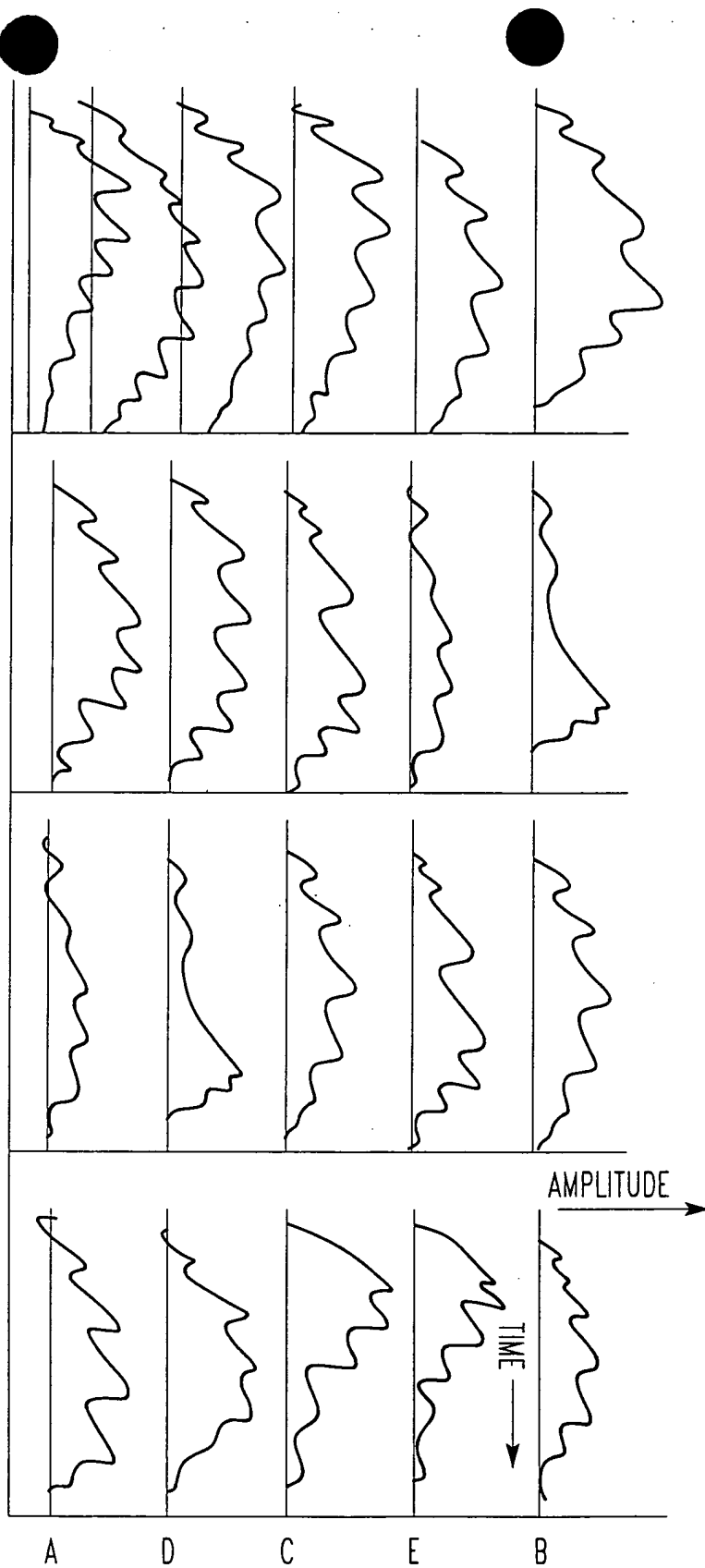


FIG. 53

FREQUENCY



ACOUSTIC LOCATION

FIG.54

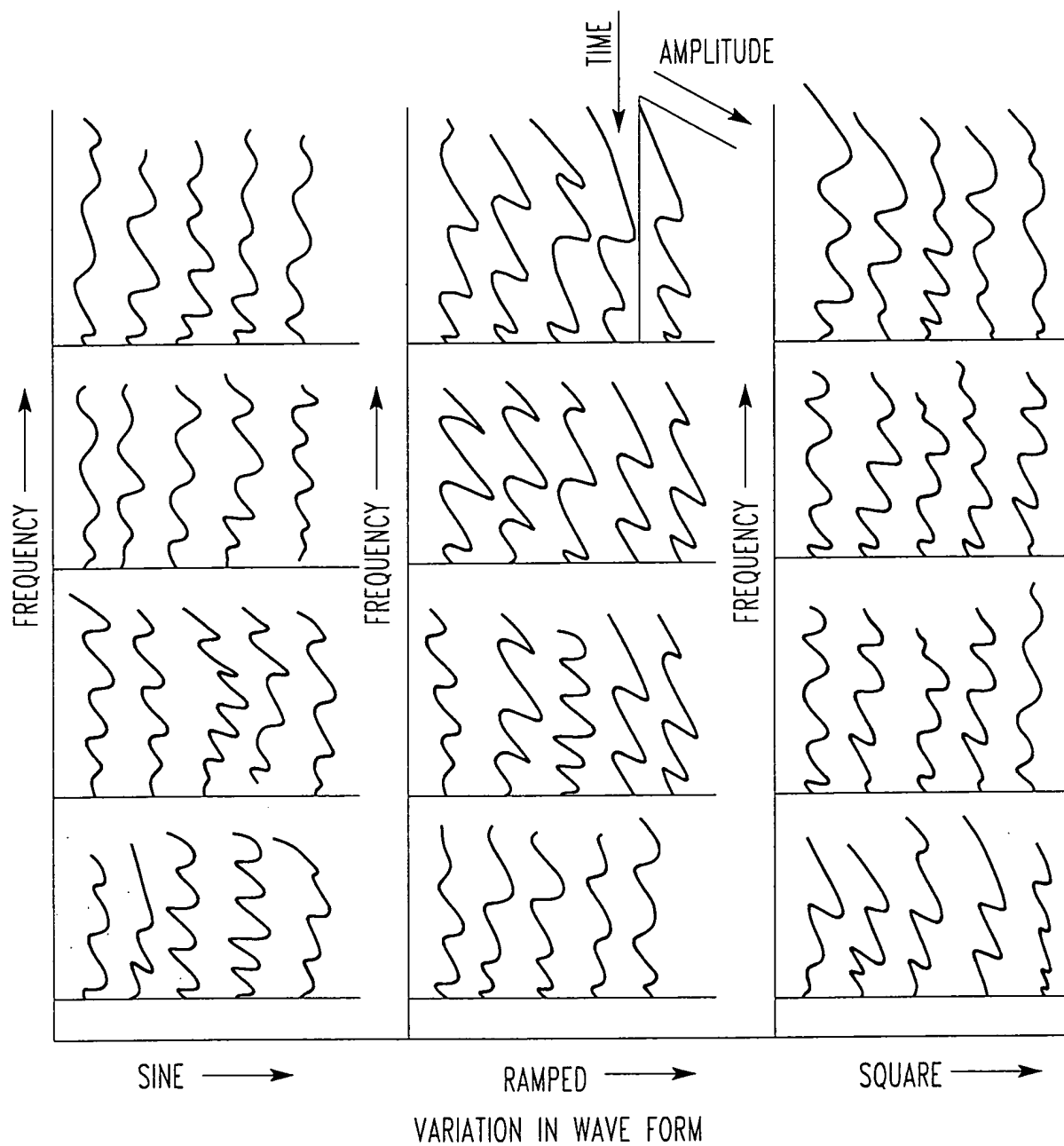


FIG.55

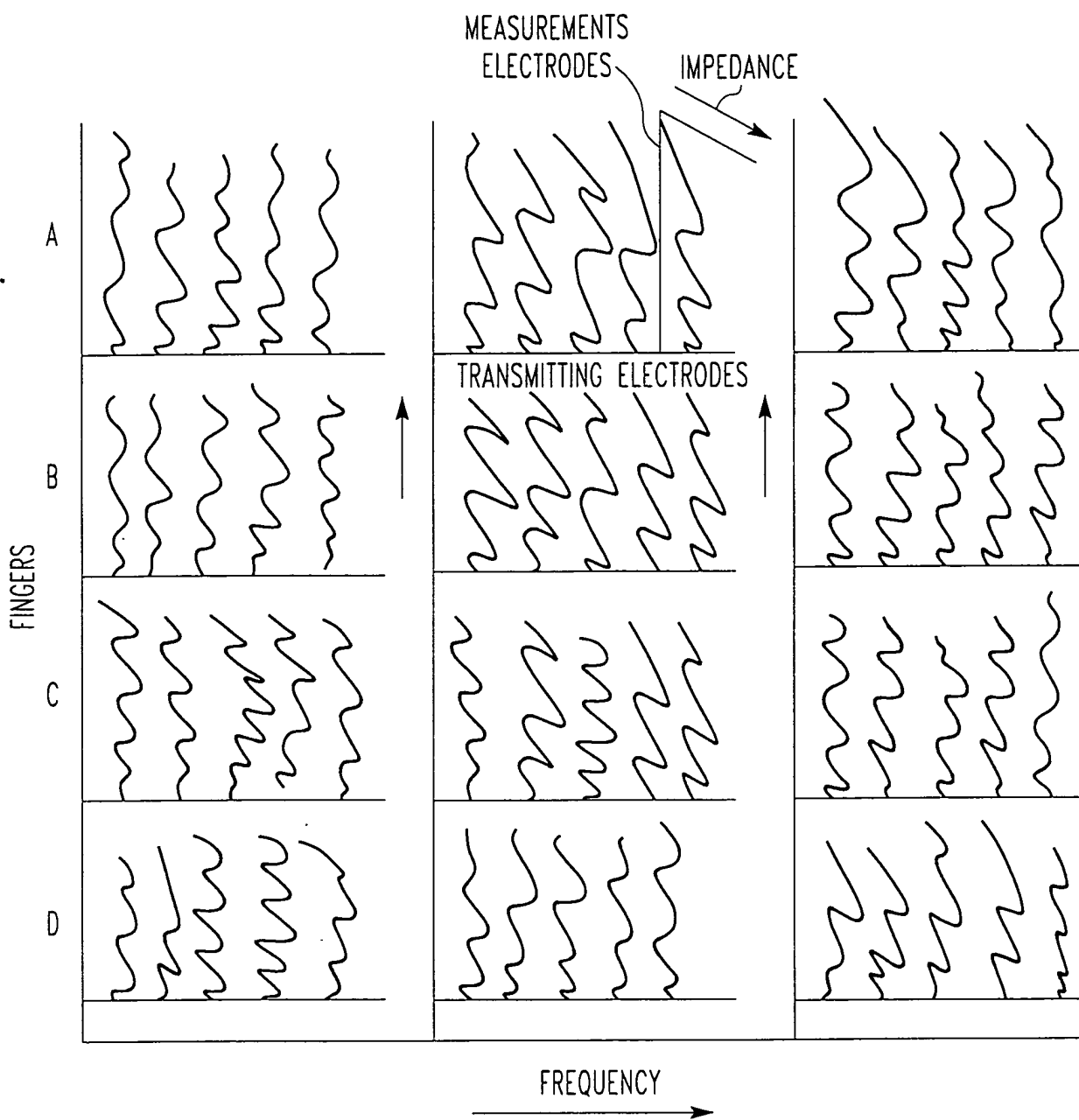


FIG. 56

U.S. Pat. 4,340,441

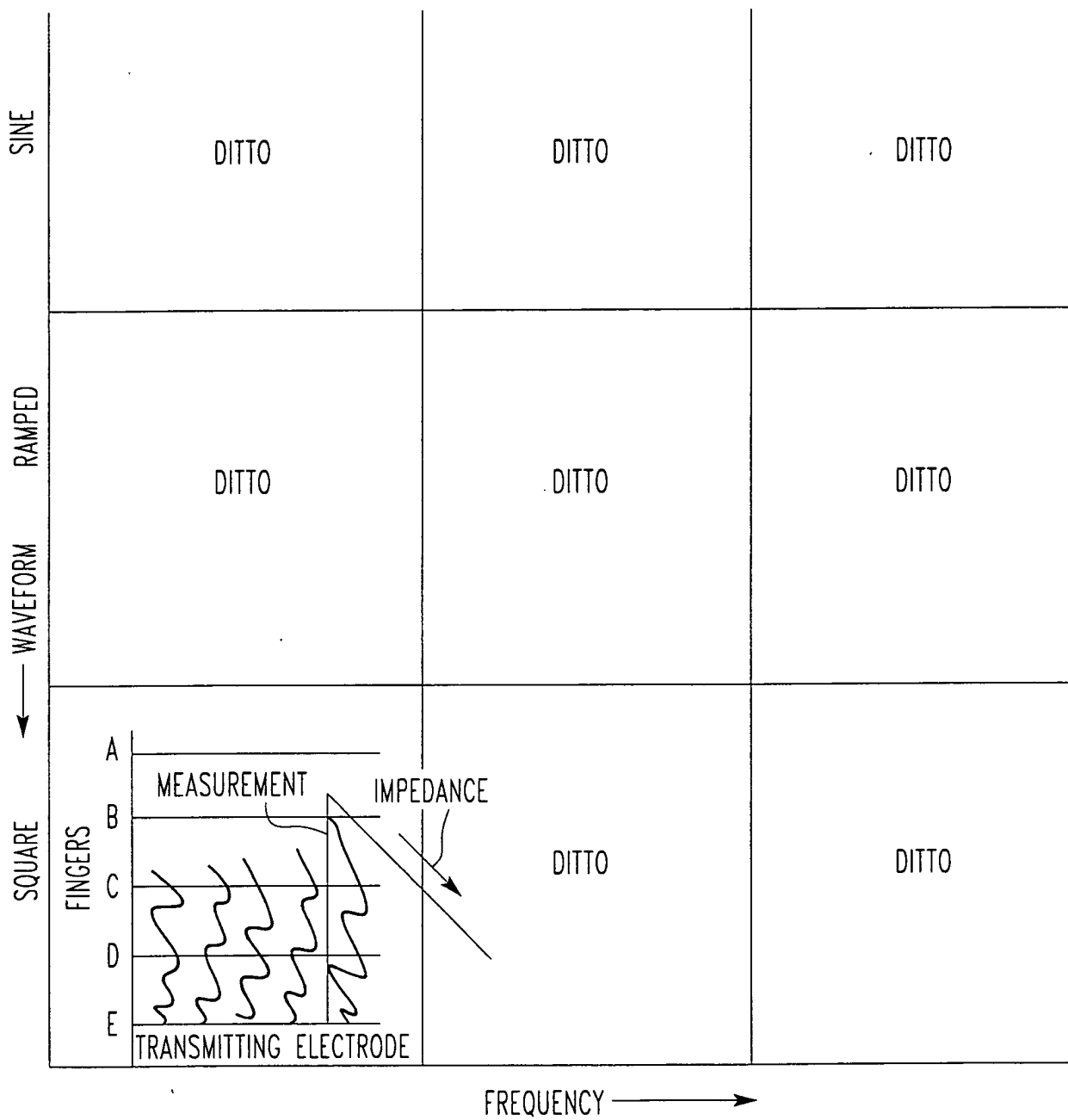


FIG. 57

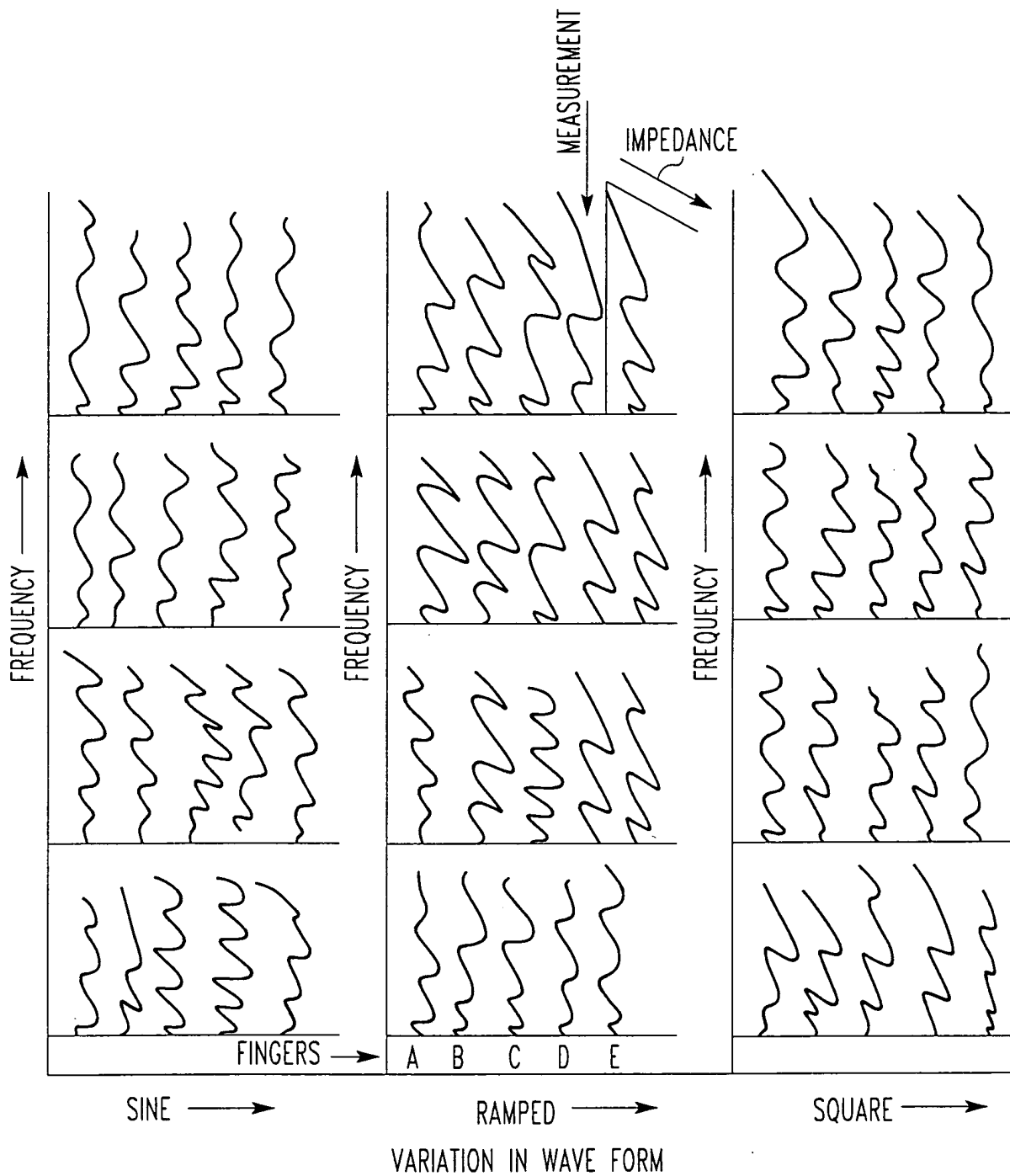


FIG.58

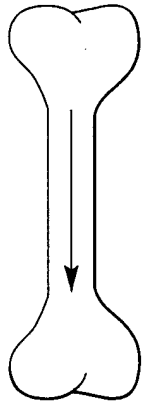


FIG. 59

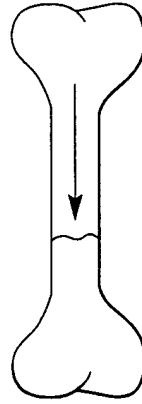


FIG. 60

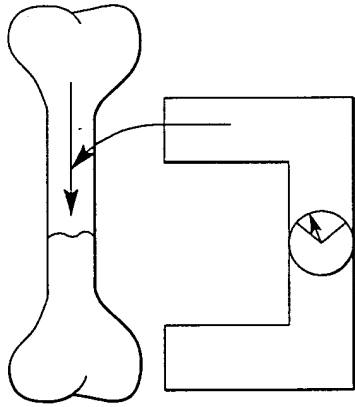


FIG. 61

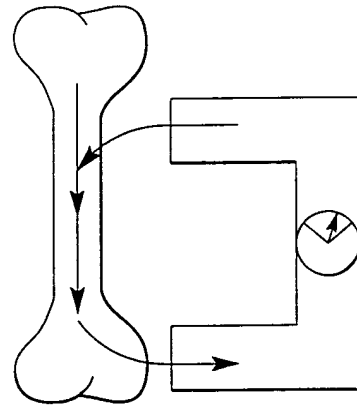
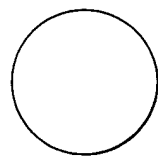
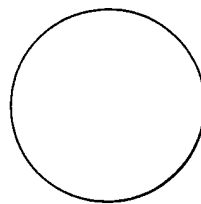


FIG. 62



1 CM
DIAMETER



1.25 CM
DIAMETER



FIG. 63

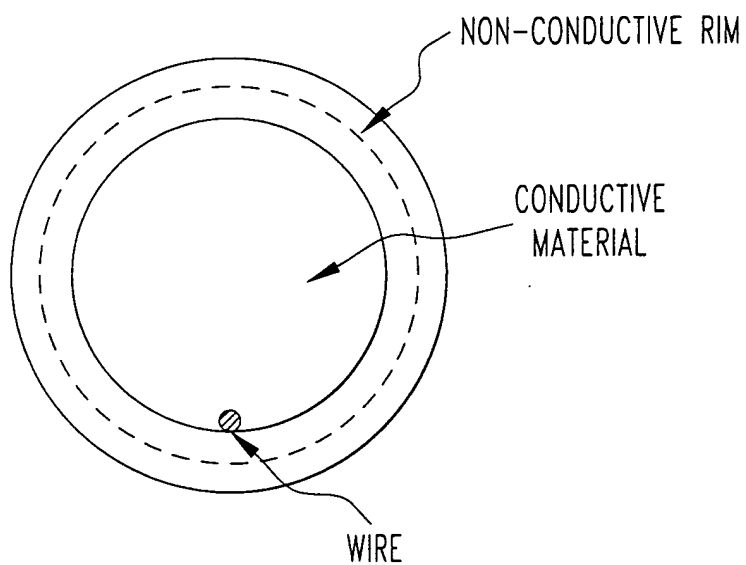
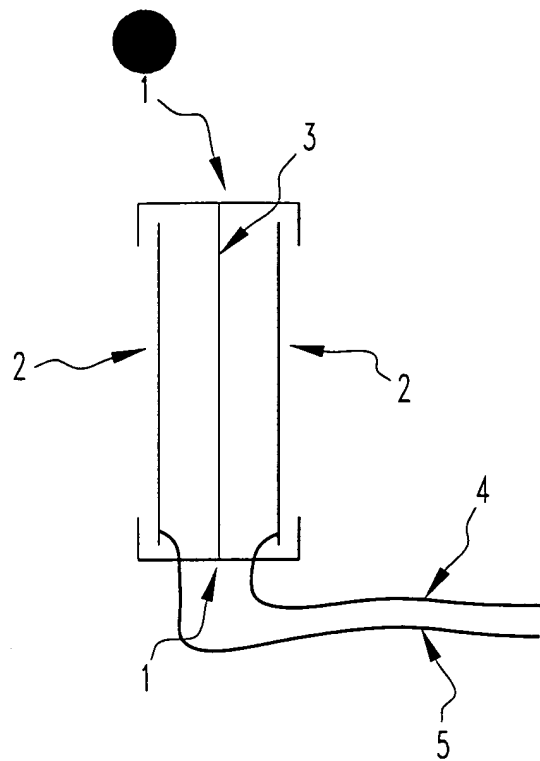


FIG. 64



- 1. NON-CONDUCTIVE RIM
- 2. CONDUCTIVE ELECTRODE
- 3. NON-CONDUCTIVE DIVIDER
- 4. CONNECTOR TO ANALYZER
- 5. CONNECTOR TO GENERATOR

FIG. 65

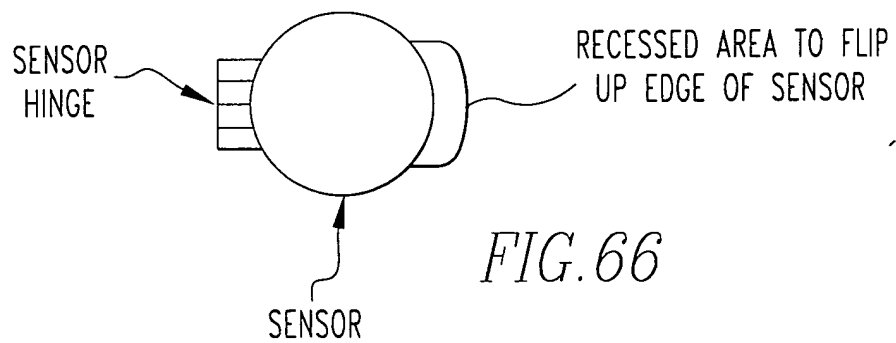
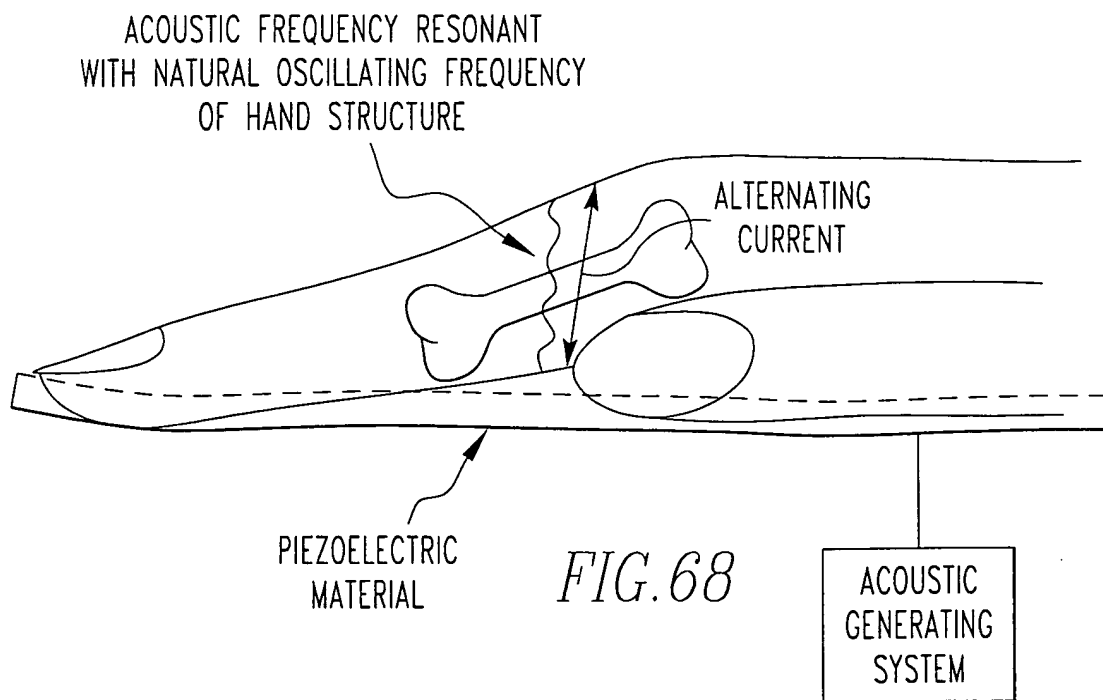
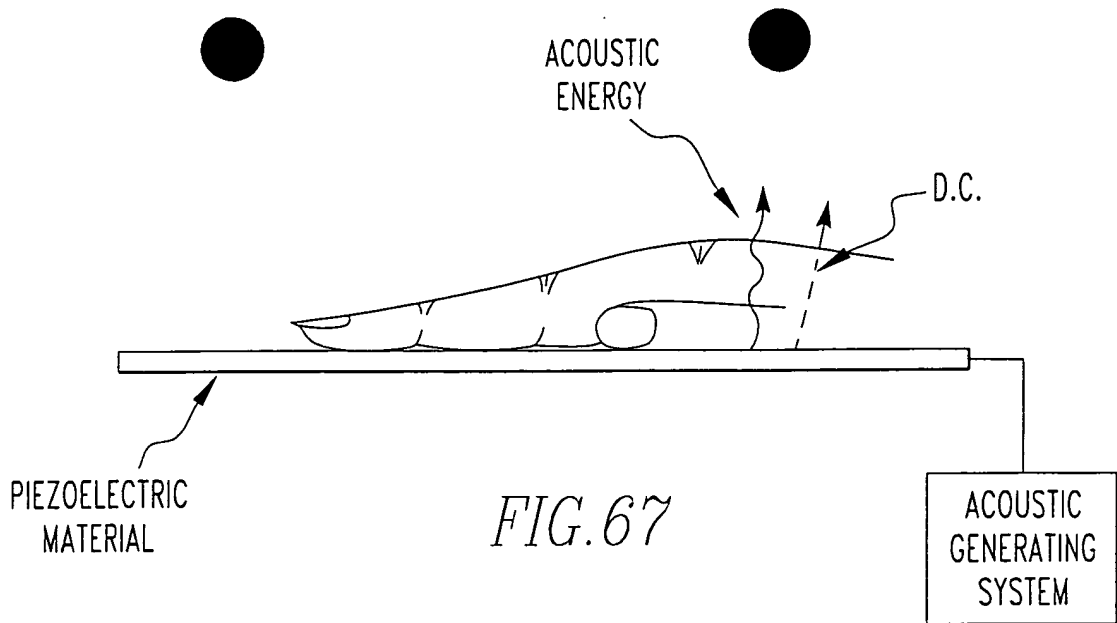


FIG. 66



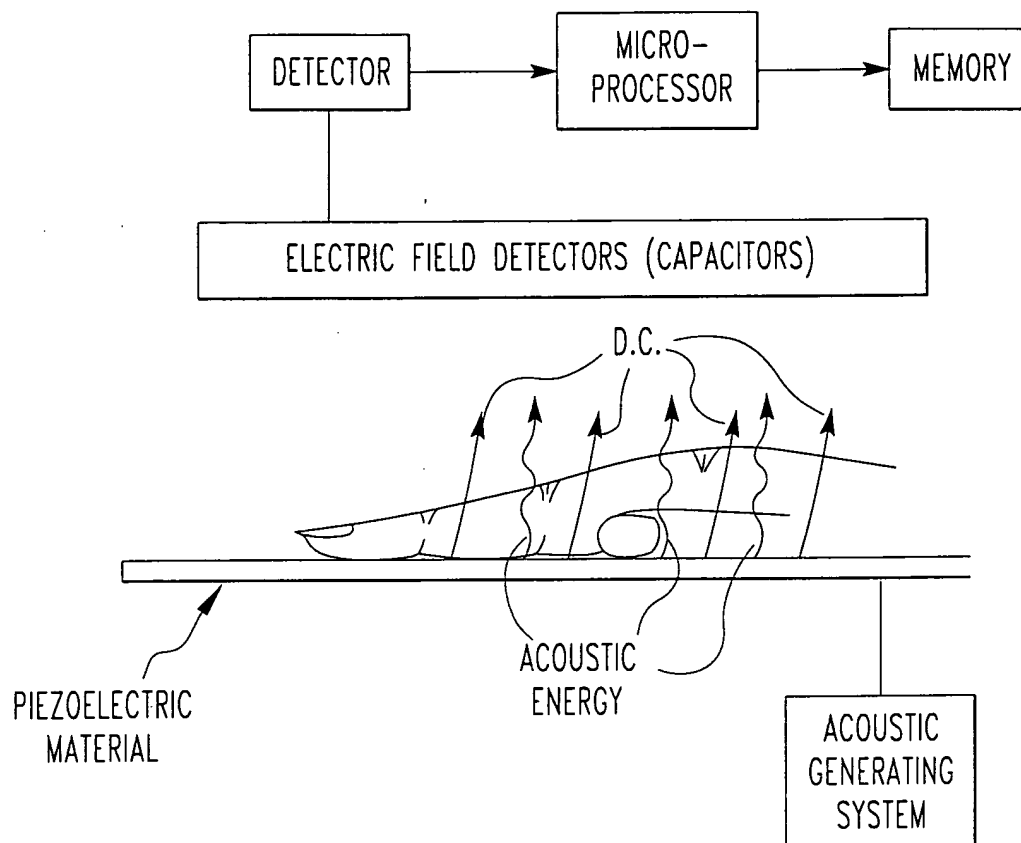


FIG. 69

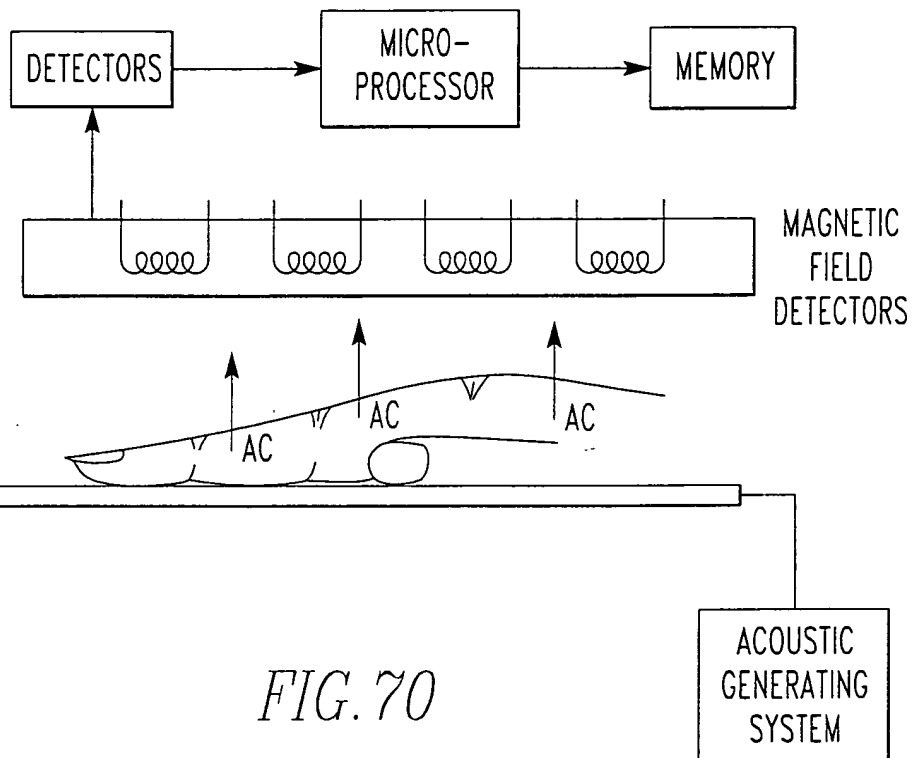


FIG. 70

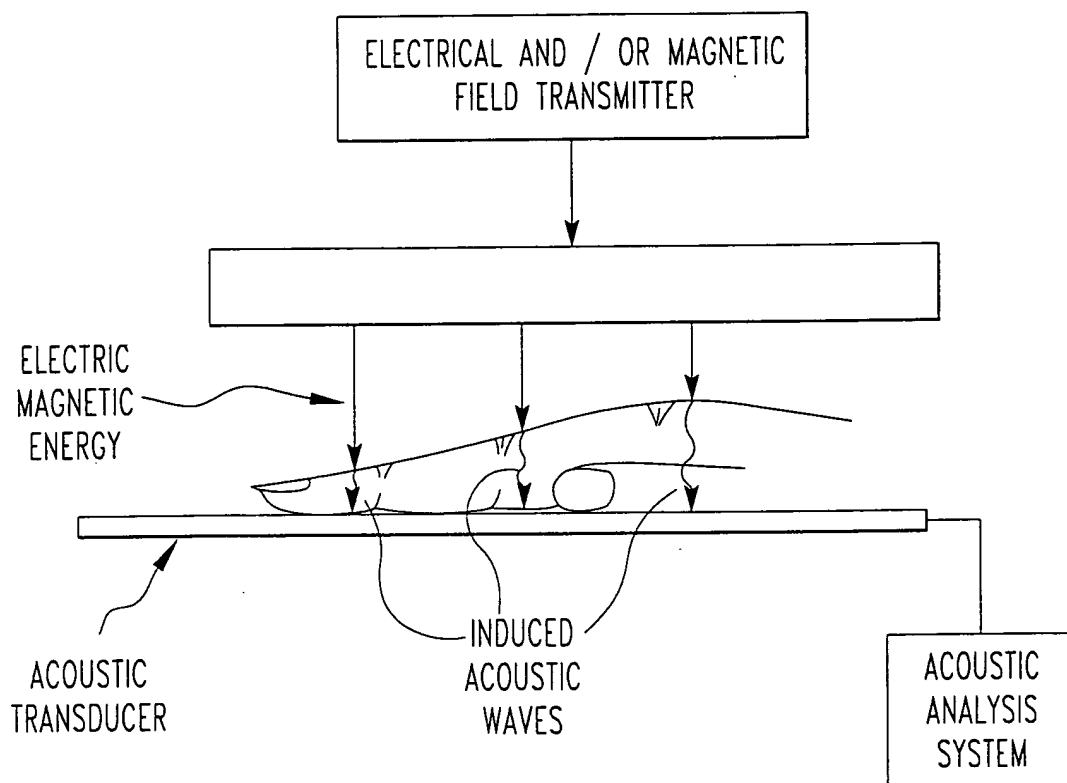
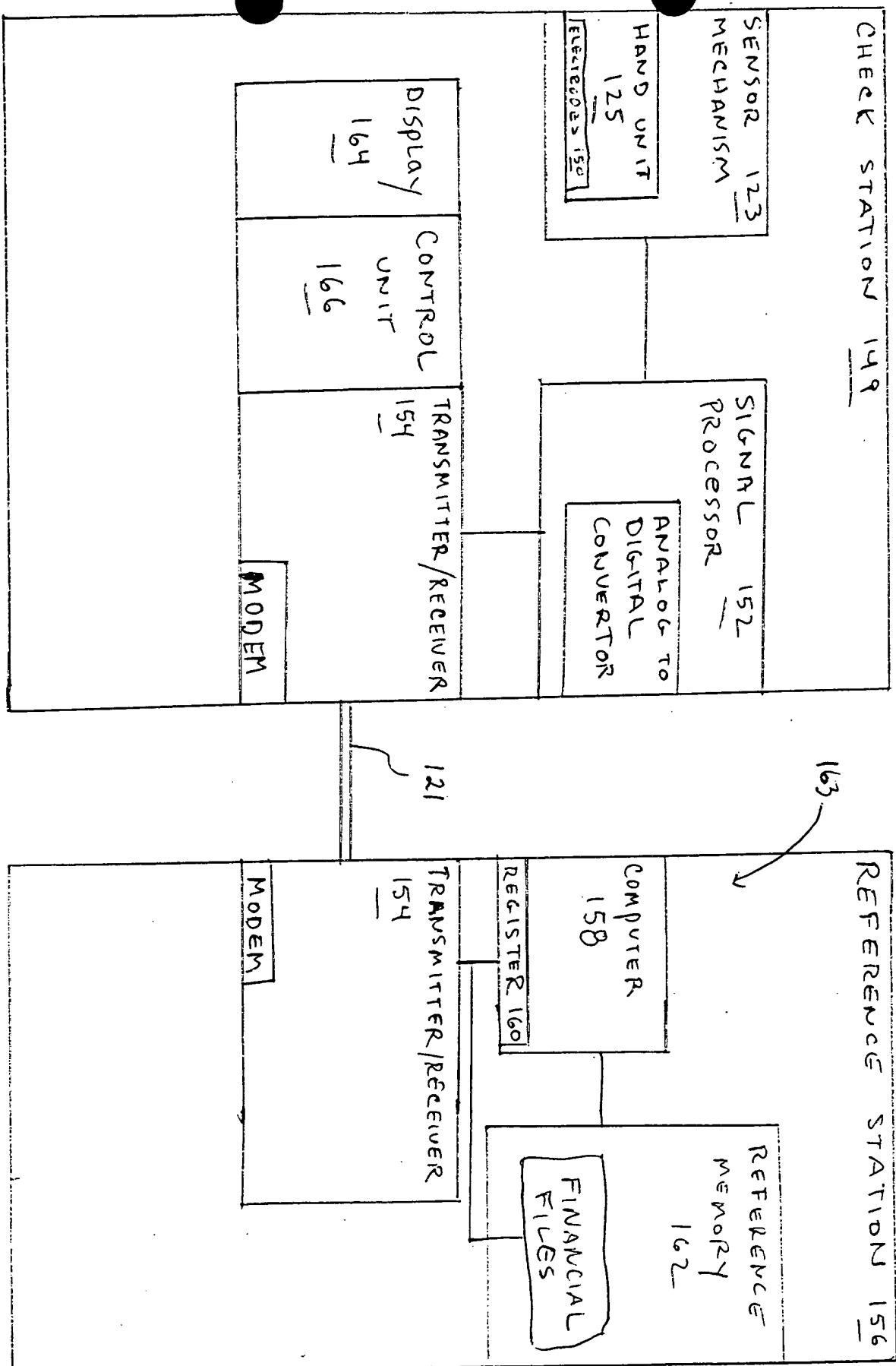
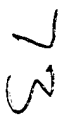


FIG. 71

FIG 72



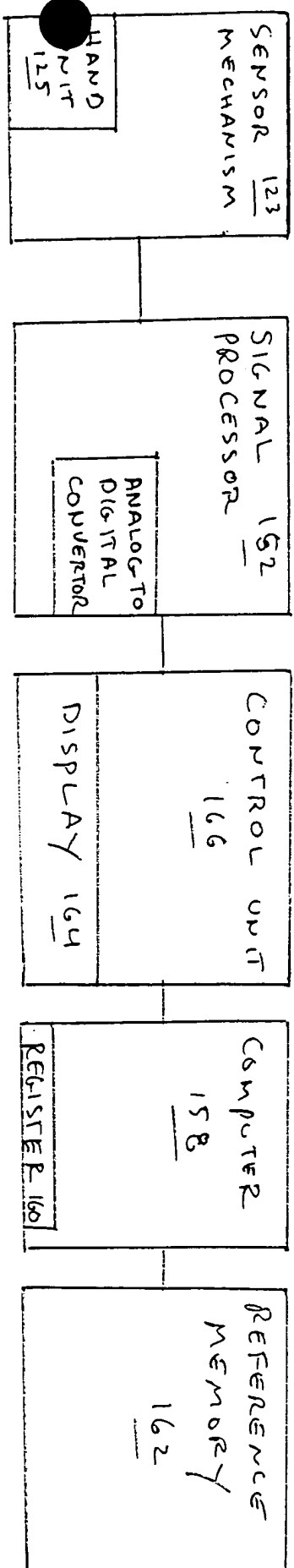
0030643004500



152

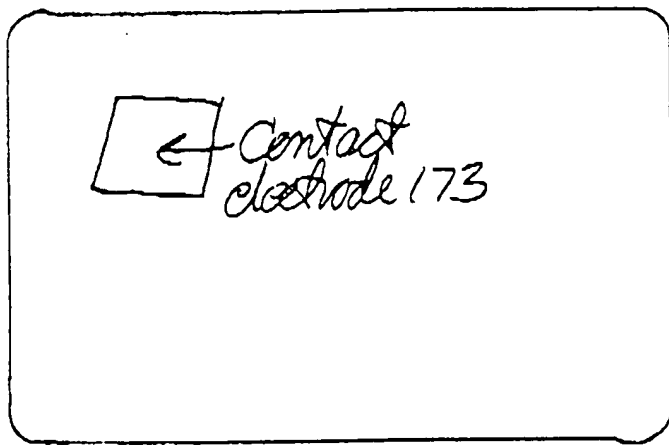
[illegible]

Fig 74

[illegible]

10. *Chlorophyll a* and *Chlorophyll b*

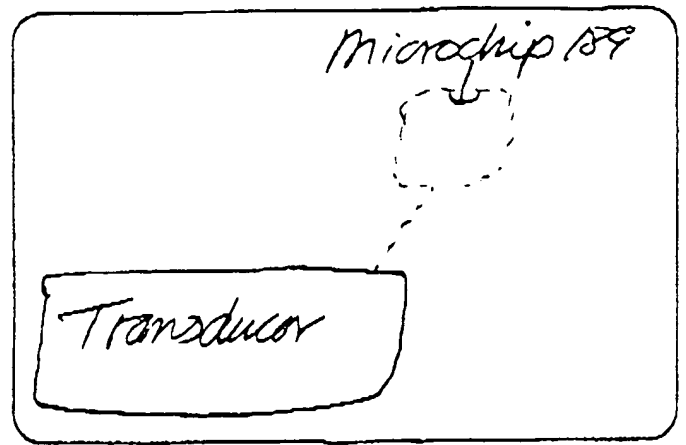
Acoustic Smart Card



FRONT

↑
170

FIG 75a

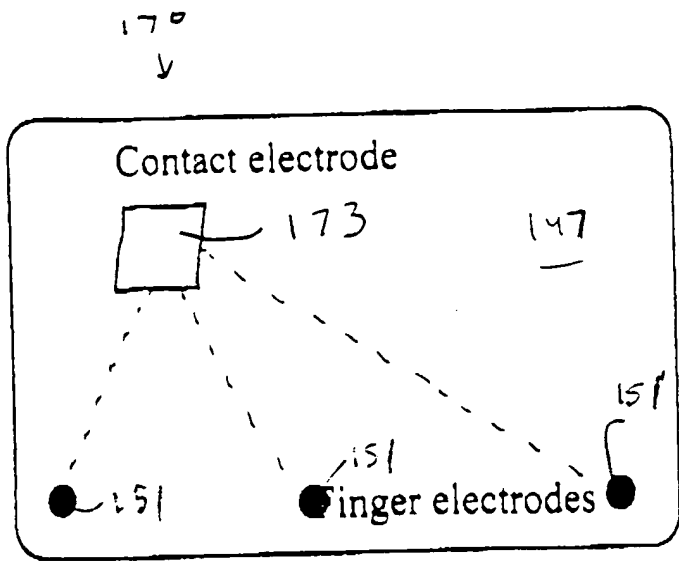


BACK

↑
170

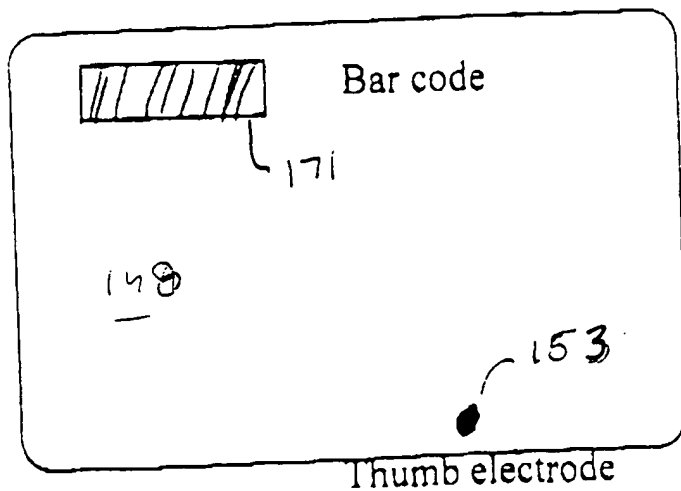
FIG 75b

0030543.004609
663460.245660



FRONT

FIG 75



BACK

FIG 76

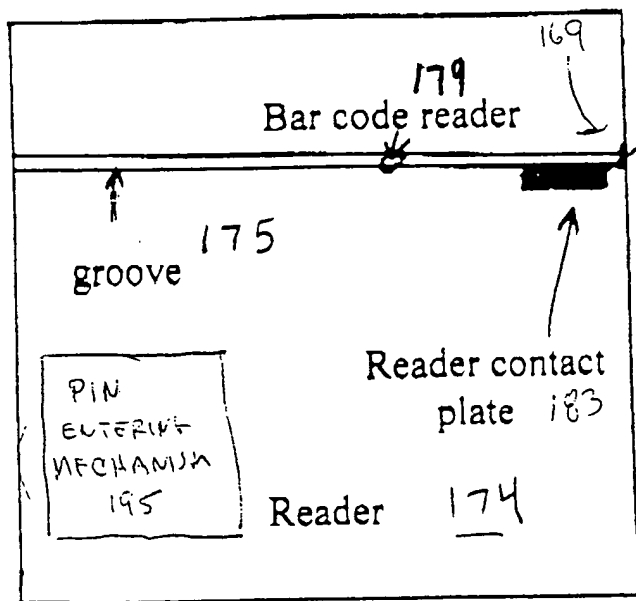


FIG 77

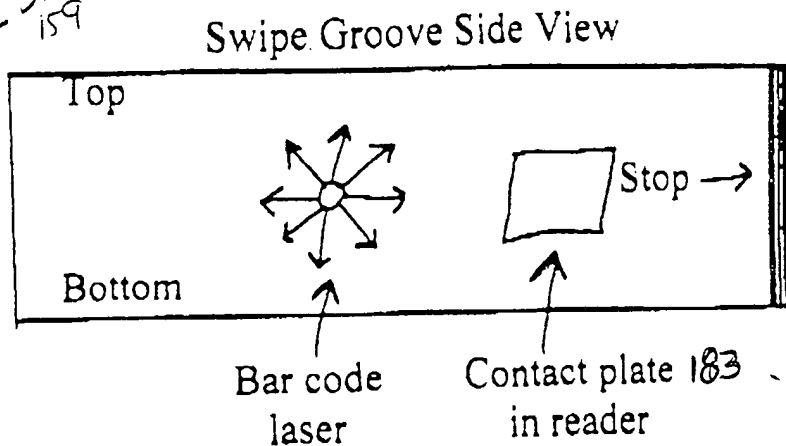


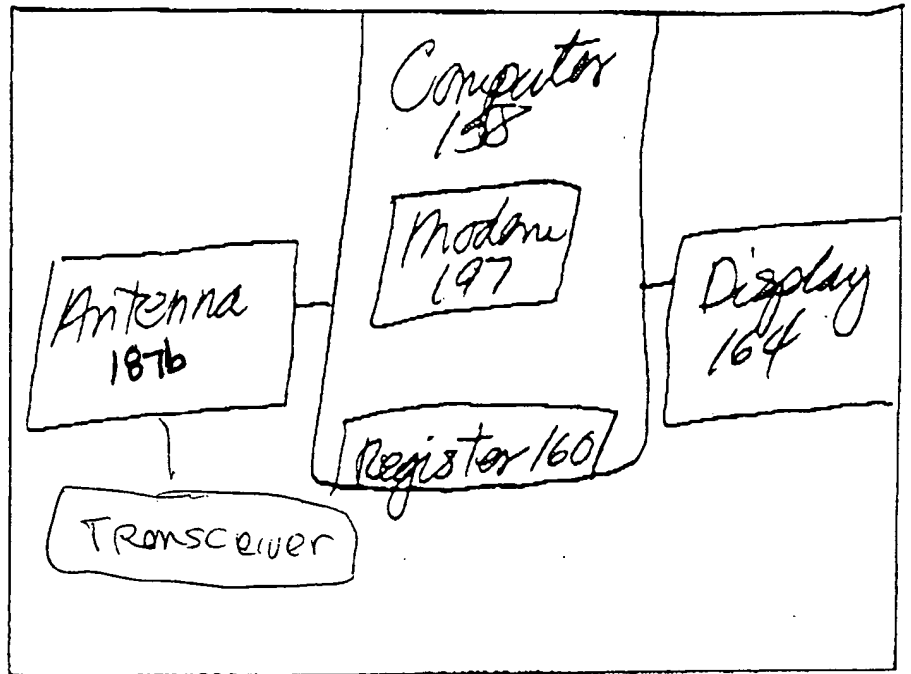
FIG 78

603760-243660

[illegible]

FIG 77a

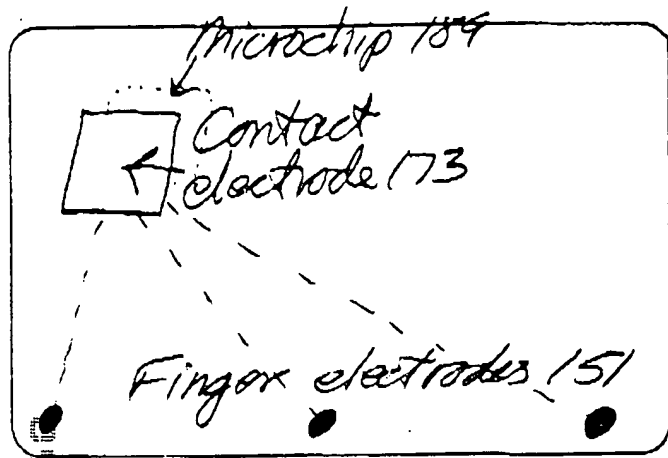
1. $\frac{1}{2}$ of the total number of students
 2. $\frac{1}{4}$ of the total number of students
 3. $\frac{1}{8}$ of the total number of students
 4. $\frac{1}{16}$ of the total number of students
 5. $\frac{1}{32}$ of the total number of students
 6. $\frac{1}{64}$ of the total number of students
 7. $\frac{1}{128}$ of the total number of students
 8. $\frac{1}{256}$ of the total number of students
 9. $\frac{1}{512}$ of the total number of students
 10. $\frac{1}{1024}$ of the total number of students
 11. $\frac{1}{2048}$ of the total number of students
 12. $\frac{1}{4096}$ of the total number of students
 13. $\frac{1}{8192}$ of the total number of students
 14. $\frac{1}{16384}$ of the total number of students
 15. $\frac{1}{32768}$ of the total number of students
 16. $\frac{1}{65536}$ of the total number of students
 17. $\frac{1}{131072}$ of the total number of students
 18. $\frac{1}{262144}$ of the total number of students
 19. $\frac{1}{524288}$ of the total number of students
 20. $\frac{1}{1048576}$ of the total number of students
 21. $\frac{1}{2097152}$ of the total number of students
 22. $\frac{1}{4194304}$ of the total number of students
 23. $\frac{1}{8388608}$ of the total number of students
 24. $\frac{1}{16777216}$ of the total number of students
 25. $\frac{1}{33554432}$ of the total number of students
 26. $\frac{1}{67108864}$ of the total number of students
 27. $\frac{1}{134217728}$ of the total number of students
 28. $\frac{1}{268435456}$ of the total number of students
 29. $\frac{1}{536870912}$ of the total number of students
 30. $\frac{1}{1073741824}$ of the total number of students
 31. $\frac{1}{2147483648}$ of the total number of students
 32. $\frac{1}{4294967296}$ of the total number of students
 33. $\frac{1}{8589934592}$ of the total number of students
 34. $\frac{1}{17179869184}$ of the total number of students
 35. $\frac{1}{34359738368}$ of the total number of students
 36. $\frac{1}{68719476736}$ of the total number of students
 37. $\frac{1}{137438953472}$ of the total number of students
 38. $\frac{1}{274877906944}$ of the total number of students
 39. $\frac{1}{549755813888}$ of the total number of students
 40. $\frac{1}{1099511627776}$ of the total number of students
 41. $\frac{1}{2199023255552}$ of the total number of students
 42. $\frac{1}{4398046511104}$ of the total number of students
 43. $\frac{1}{8796093022208}$ of the total number of students
 44. $\frac{1}{17592186044416}$ of the total number of students
 45. $\frac{1}{35184372088832}$ of the total number of students
 46. $\frac{1}{70368744177664}$ of the total number of students
 47. $\frac{1}{140737488355328}$ of the total number of students
 48. $\frac{1}{281474976710656}$ of the total number of students
 49. $\frac{1}{562949953421312}$ of the total number of students
 50. $\frac{1}{1125899906842624}$ of the total number of students
 51. $\frac{1}{2251799813685248}$ of the total number of students
 52. $\frac{1}{4503599627370496}$ of the total number of students
 53. $\frac{1}{9007199254740992}$ of the total number of students
 54. $\frac{1}{18014398509481984}$ of the total number of students
 55. $\frac{1}{36028797018963968}$ of the total number of students
 56. $\frac{1}{72057594037927936}$ of the total number of students
 57. $\frac{1}{144115188075855872}$ of the total number of students
 58. $\frac{1}{288230376151711744}$ of the total number of students
 59. $\frac{1}{576460752303423488}$ of the total number of students
 60. $\frac{1}{1152921504606846976}$ of the total number of students
 61. $\frac{1}{2305843009213693952}$ of the total number of students
 62. $\frac{1}{4611686018427387904}$ of the total number of students
 63. $\frac{1}{9223372036854775808}$ of the total number of students
 64. $\frac{1}{18446744073709551616}$ of the total number of students
 65. $\frac{1}{36893488147419103232}$ of the total number of students
 66. $\frac{1}{73786976294838206464}$ of the total number of students
 67. $\frac{1}{147573952589676412928}$ of the total number of students
 68. $\frac{1}{295147905179352825856}$ of the total number of students
 69. $\frac{1}{590295810358705651712}$ of the total number of students
 70. $\frac{1}{1180591620717411303424}$ of the total number of students
 71. $\frac{1}{2361183241434822606848}$ of the total number of students
 72. $\frac{1}{4722366482869645213696}$ of the total number of students
 73. $\frac{1}{9444732965739290427392}$ of the total number of students
 74. $\frac{1}{18889465931478580854784}$ of the total number of students
 75. $\frac{1}{37778931862957161709568}$ of the total number of students
 76. $\frac{1}{75557863725914323419136}$ of the total number of students
 77. $\frac{1}{151115727451828646838272}$ of the total number of students
 78. $\frac{1}{302231454903657293676544}$ of the total number of students
 79. $\frac{1}{604462909807314587353088}$ of the total number of students
 80. $\frac{1}{1208925819614629174706176}$ of the total number of students
 81. $\frac{1}{2417851639229258349412352}$ of the total number of students
 82. $\frac{1}{4835703278458516698824704}$ of the total number of students
 83. $\frac{1}{9671406556917033397649408}$ of the total number of students
 84. $\frac{1}{19342813113834066795298816}$ of the total number of students
 85. $\frac{1}{38685626227668133590597632}$ of the total number of students
 86. $\frac{1}{77371252455336267181195264}$ of the total number of students
 87. $\frac{1}{154742504910672534362390528}$ of the total number of students
 88. $\frac{1}{309485009821345068724781056}$ of the total number of students
 89. $\frac{1}{618970019642690137449562112}$ of the total number of students
 90. $\frac{1}{1237940039285380274899124224}$ of the total number of students
 91. $\frac{1}{2475880078570760549798248448}$ of the total number of students
 92. $\frac{1}{4951760157141521099596496896}$ of the total number of students
 93. $\frac{1}{9903520314283042199192993792}$ of the total number of students
 94. $\frac{1}{19807040628566084398385987584}$ of the total number of students
 95. $\frac{1}{39614081257132168796771975168}$ of the total number of students
 96. $\frac{1}{79228162514264337593543950336}$ of the total number of students
 97. $\frac{1}{158456325028528675187087900672}$ of the total number of students
 98. $\frac{1}{316912650057057350374175801344}$ of the total number of students
 99. $\frac{1}{633825300114114700748351602688}$ of the total number of students
 100. $\frac{1}{1267650600228229401496703205376}$ of the total number of students
 101. $\frac{1}{2535301200456458802993406410752}$ of the total number of students
 102. $\frac{1}{5070602400912917605986812821504}$ of the total number of students
 103. $\frac{1}{101412$



170

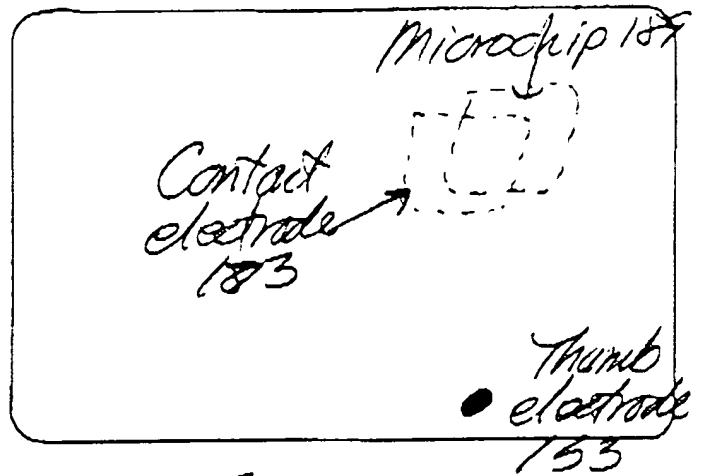
F16 78a

Electrode Smart Card



FRONT

FIG. 79a

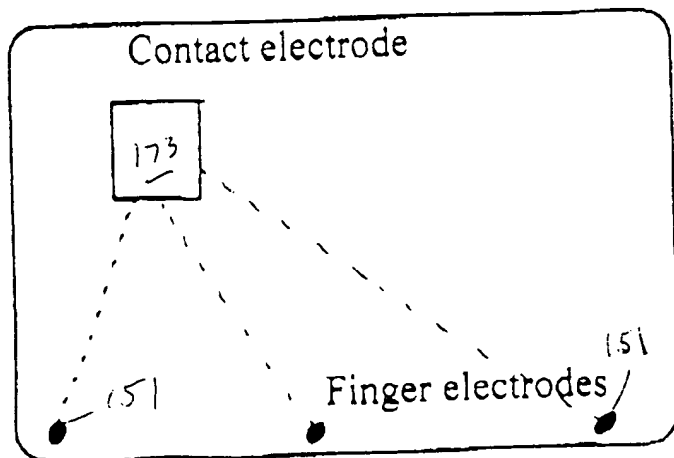
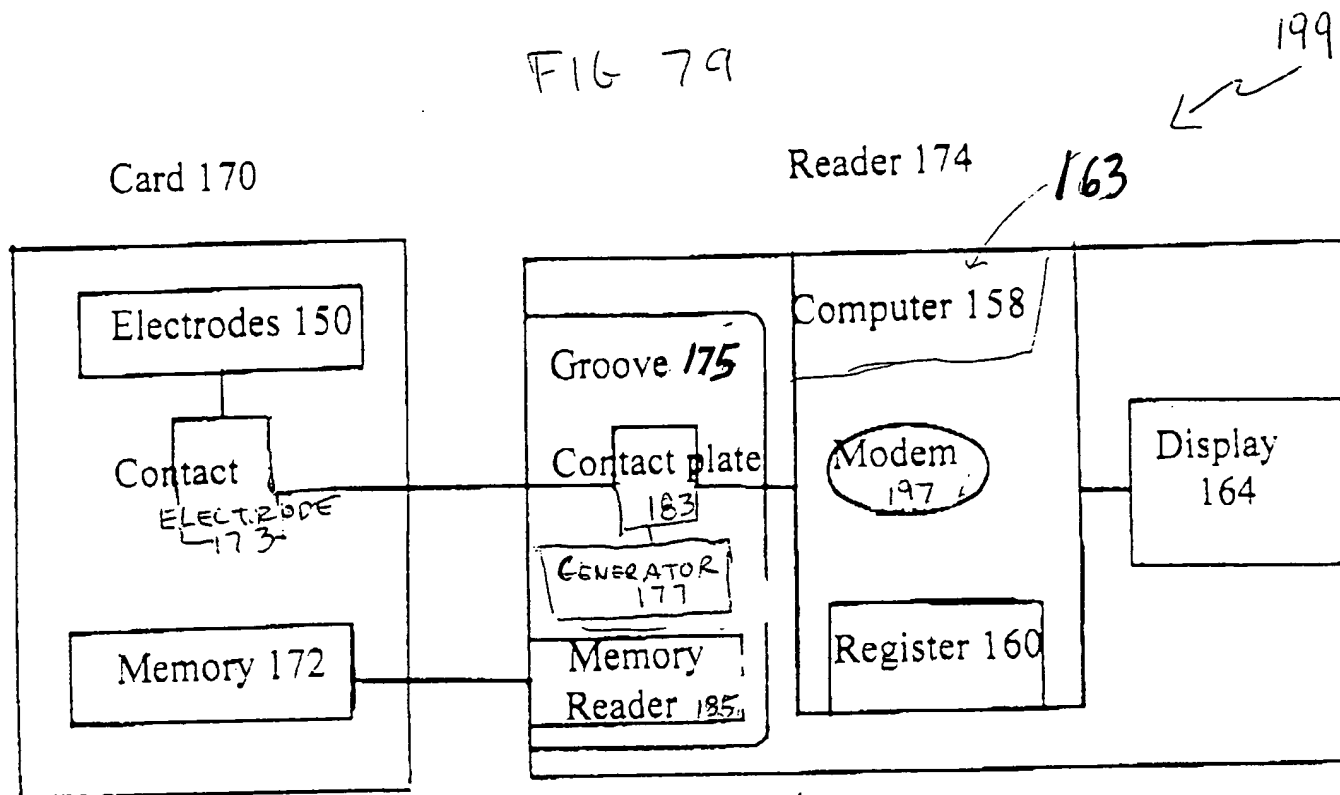


BACK

FIG. 79b

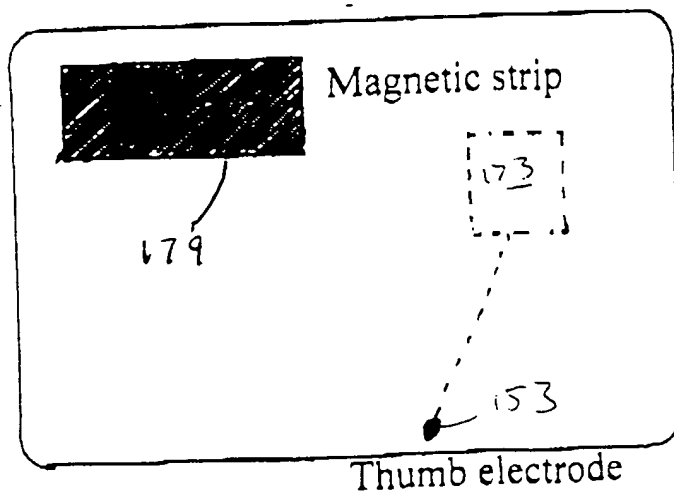
669460-01-9000

FIG 79



FRONT

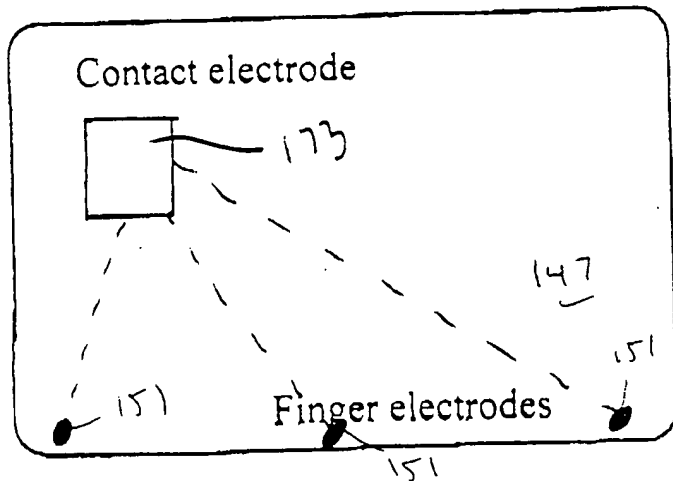
FIG 80



BACK

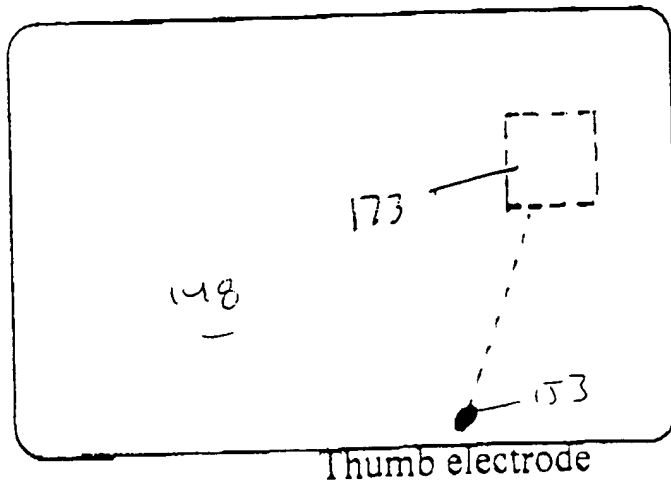
FIG 81

FIG 82



FRONT

FIG 83



BACK

FIG 84

Card 170

Reader 174

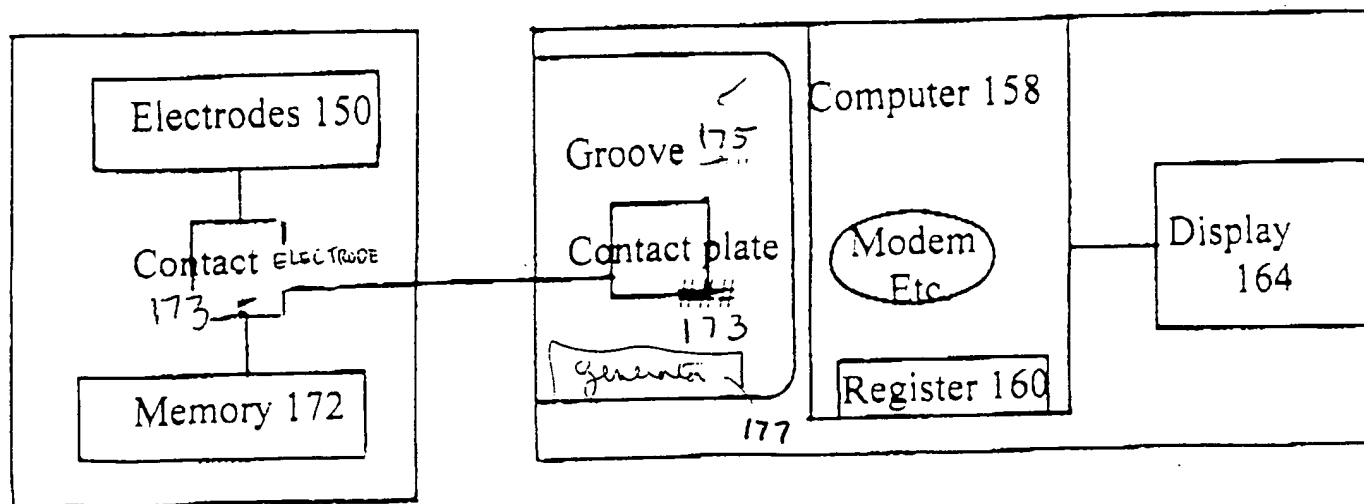
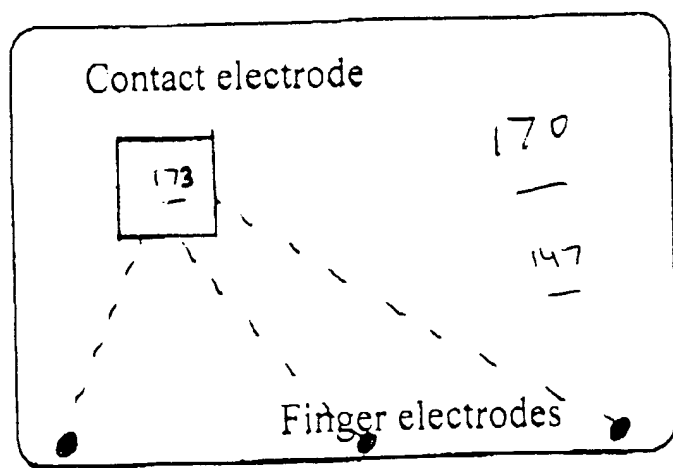
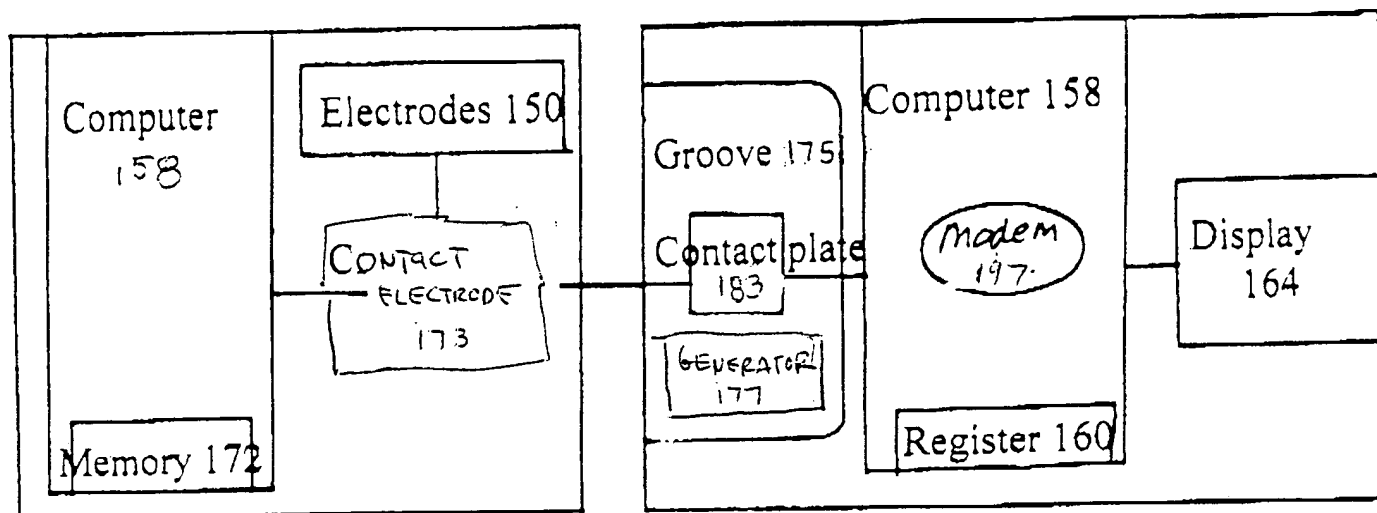


FIG 85

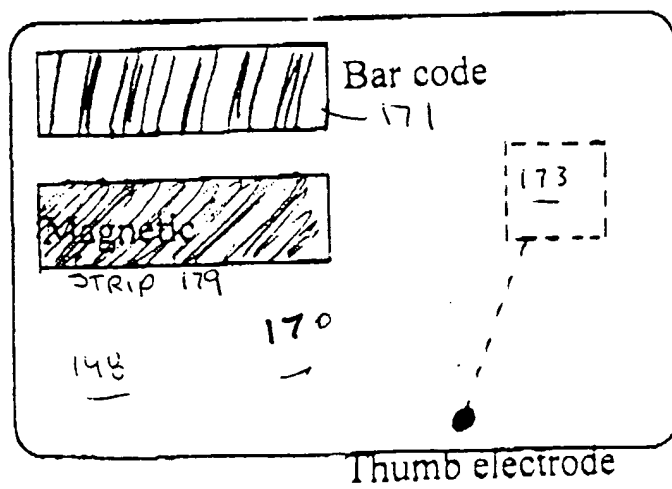
Card 170

Reader 174



FRONT

FIG 86



BACK

FIG 87

FIG 88

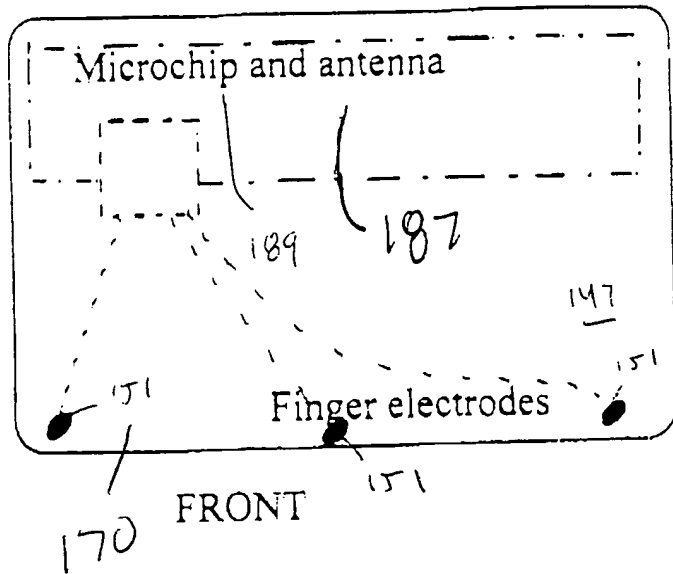


FIG 89

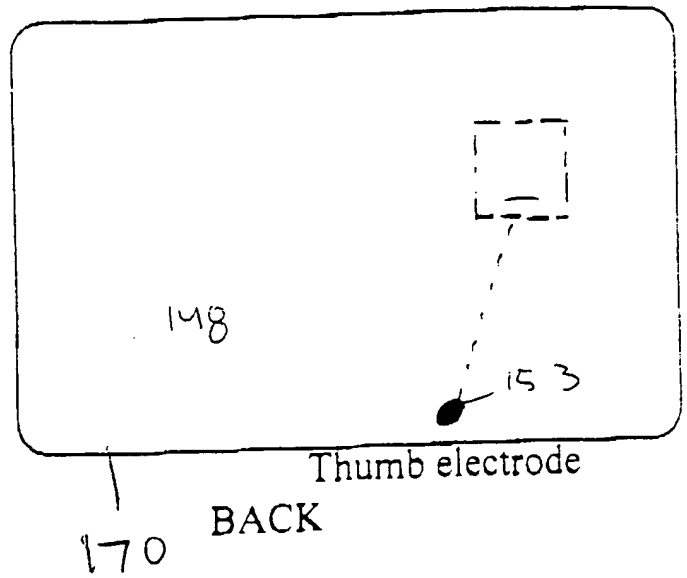
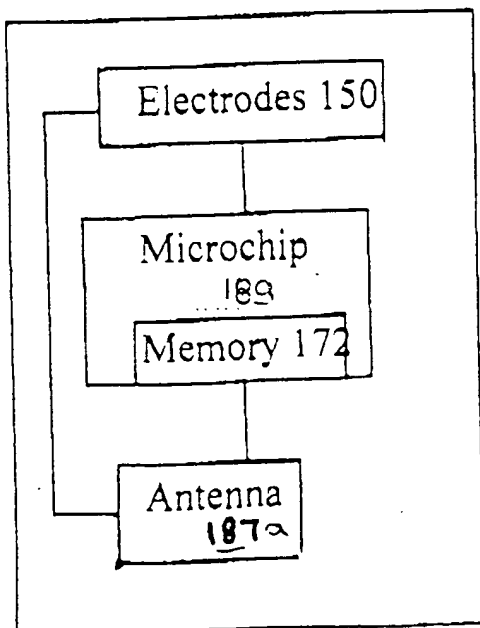
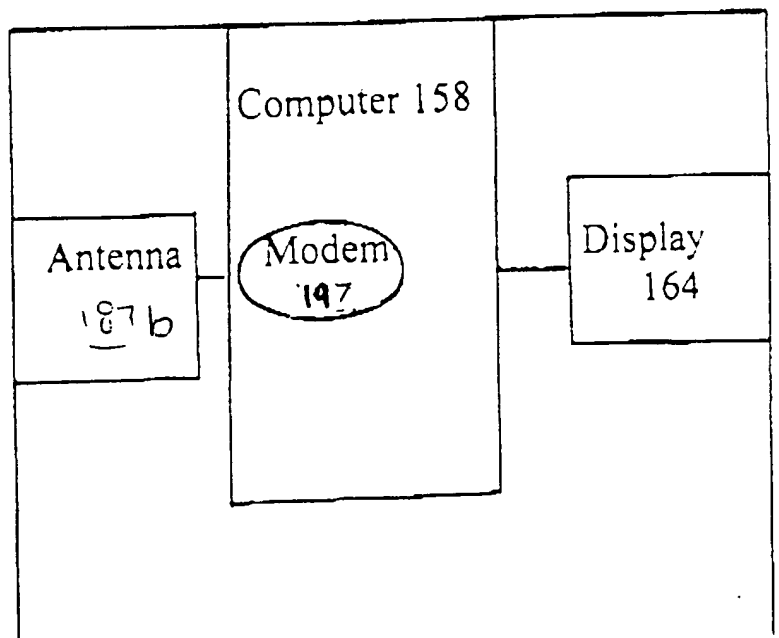


FIG 90

Card 170



Reader 174



665960" 2175660

133

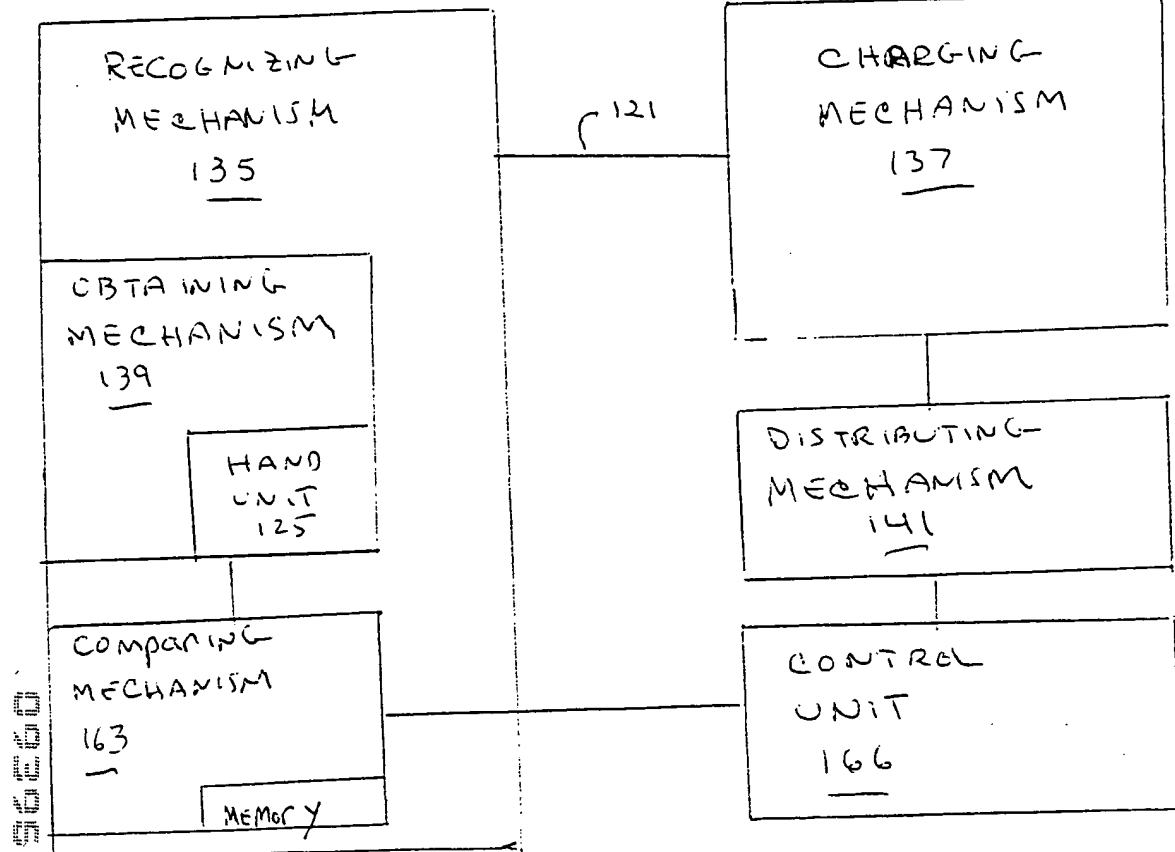


FIG 91

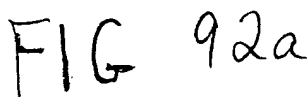
[illegible]

FIG 92a

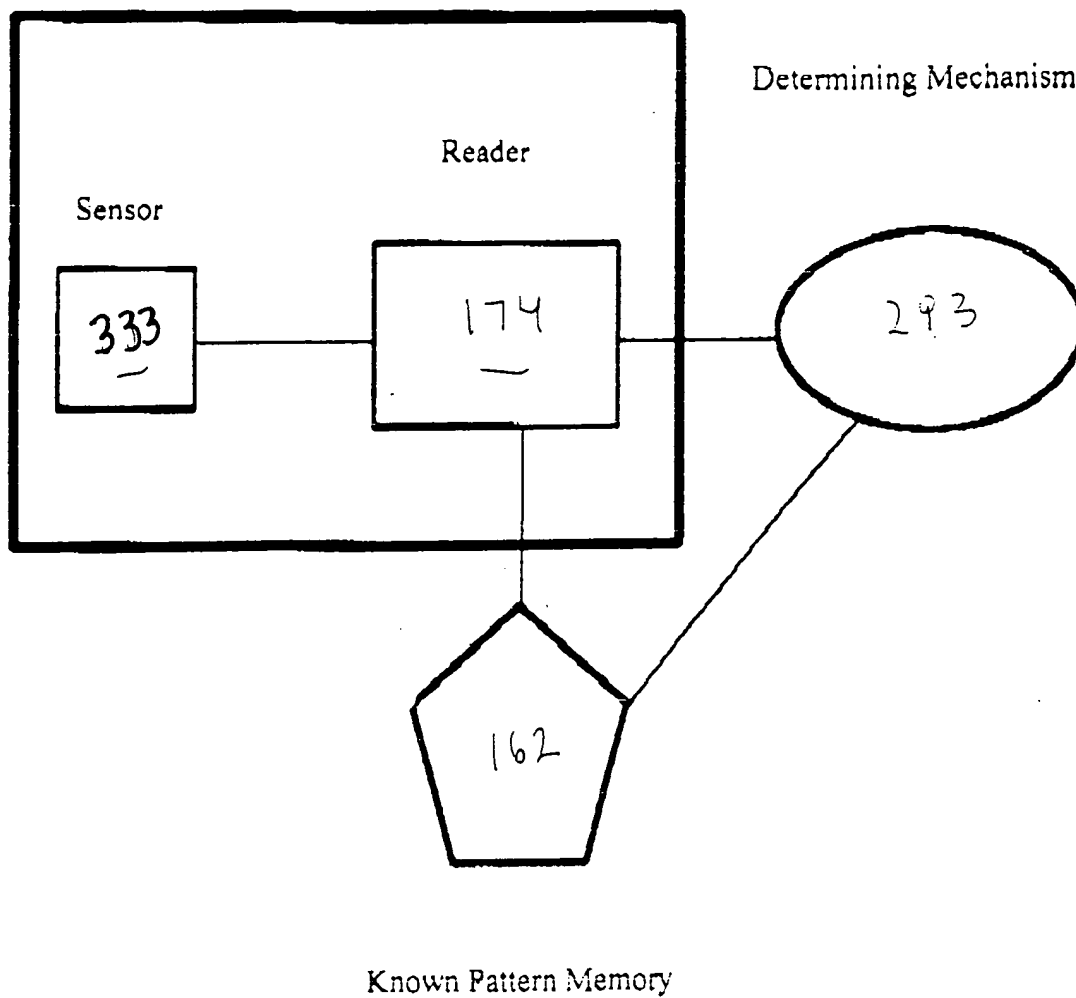
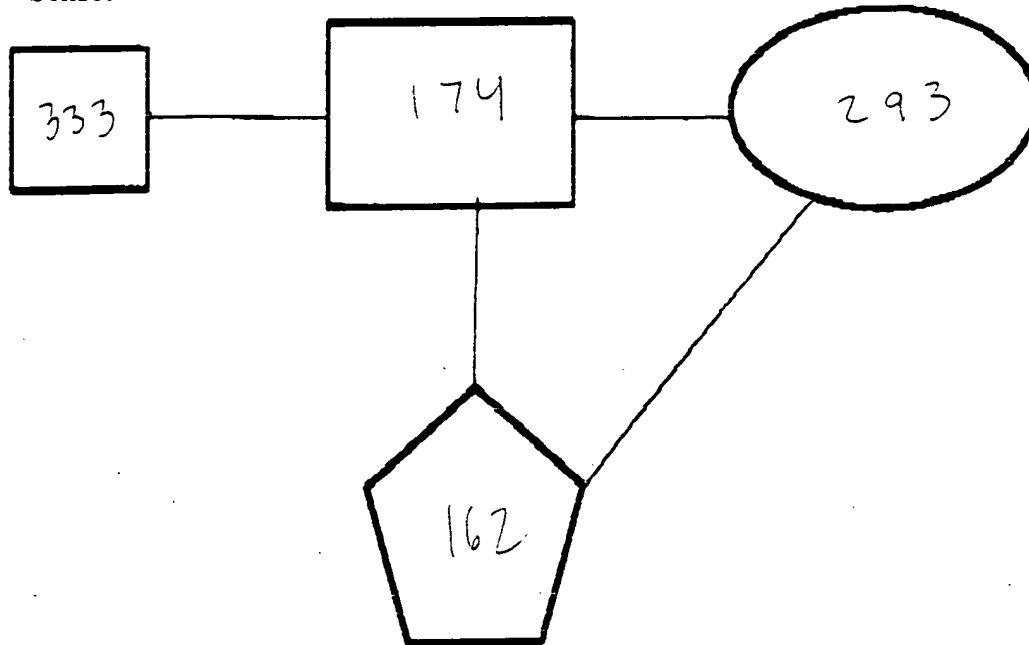


FIG 94

Determining Mechanism

Reader

Sensor



Known Pattern Memory

FIG 95

663400 24 11 2000

CONFIDENTIAL

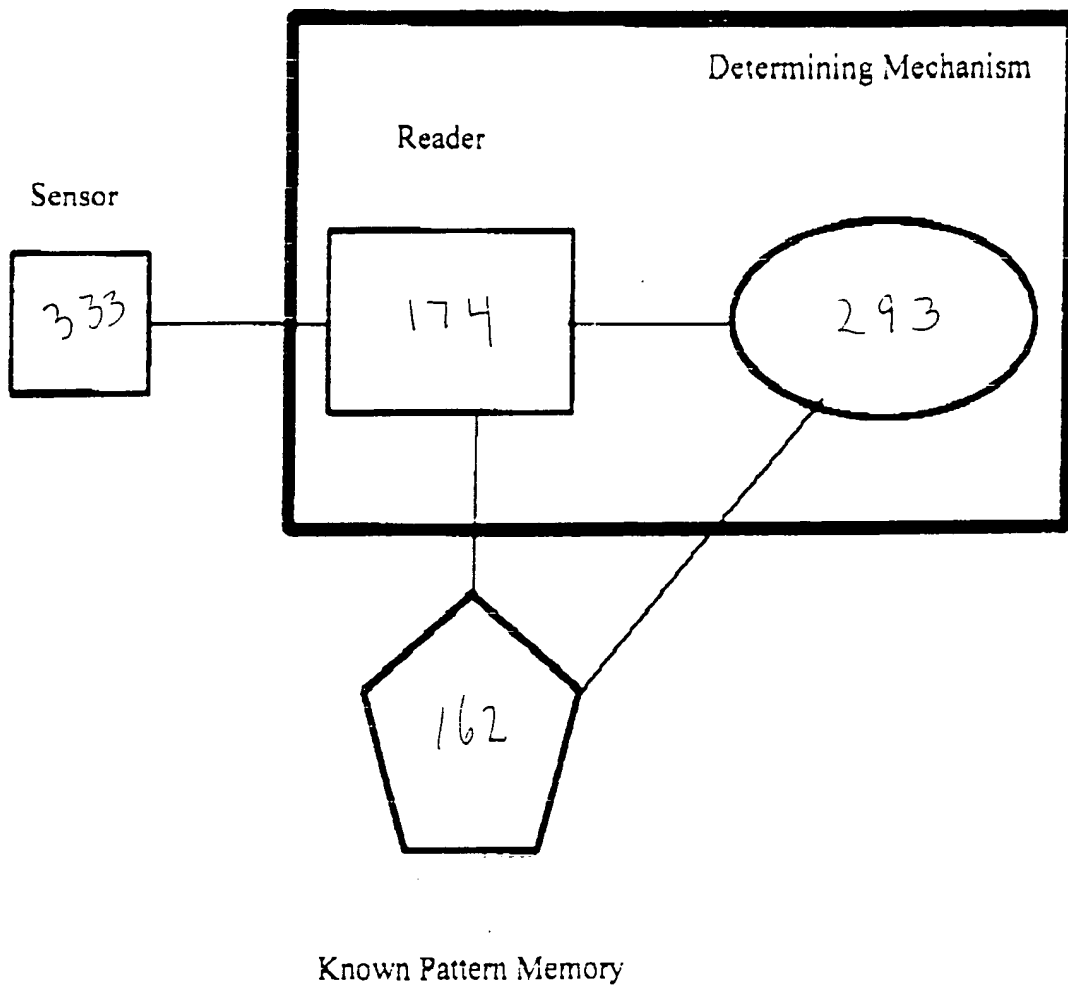
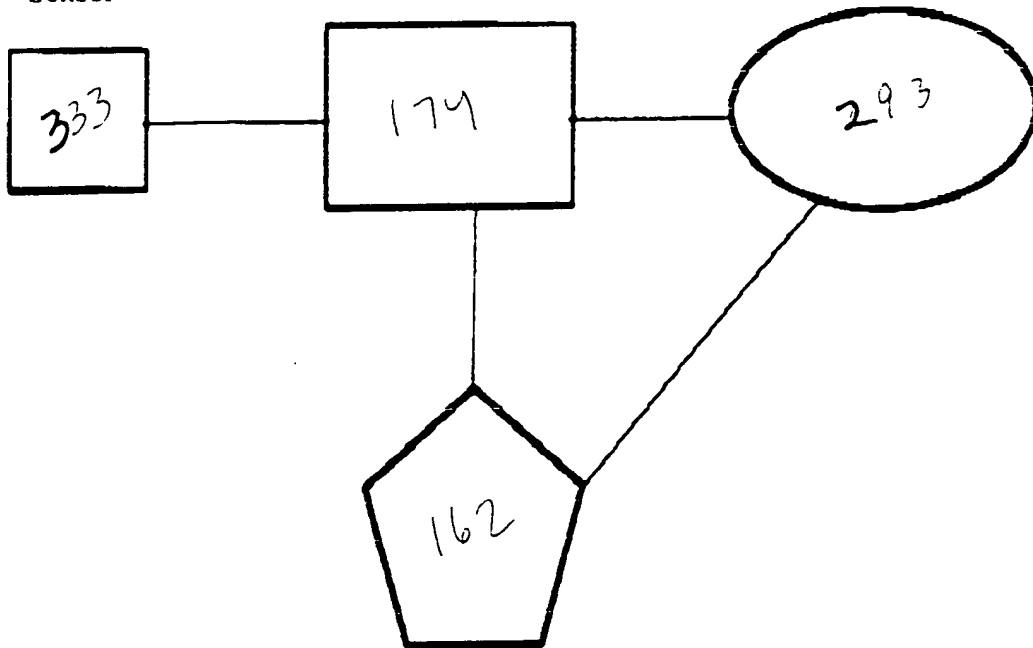


FIG 96

Determining Mechanism


Reader

Sensor



Known Pattern Memory

FIG 97



293

174

333




FIG 98

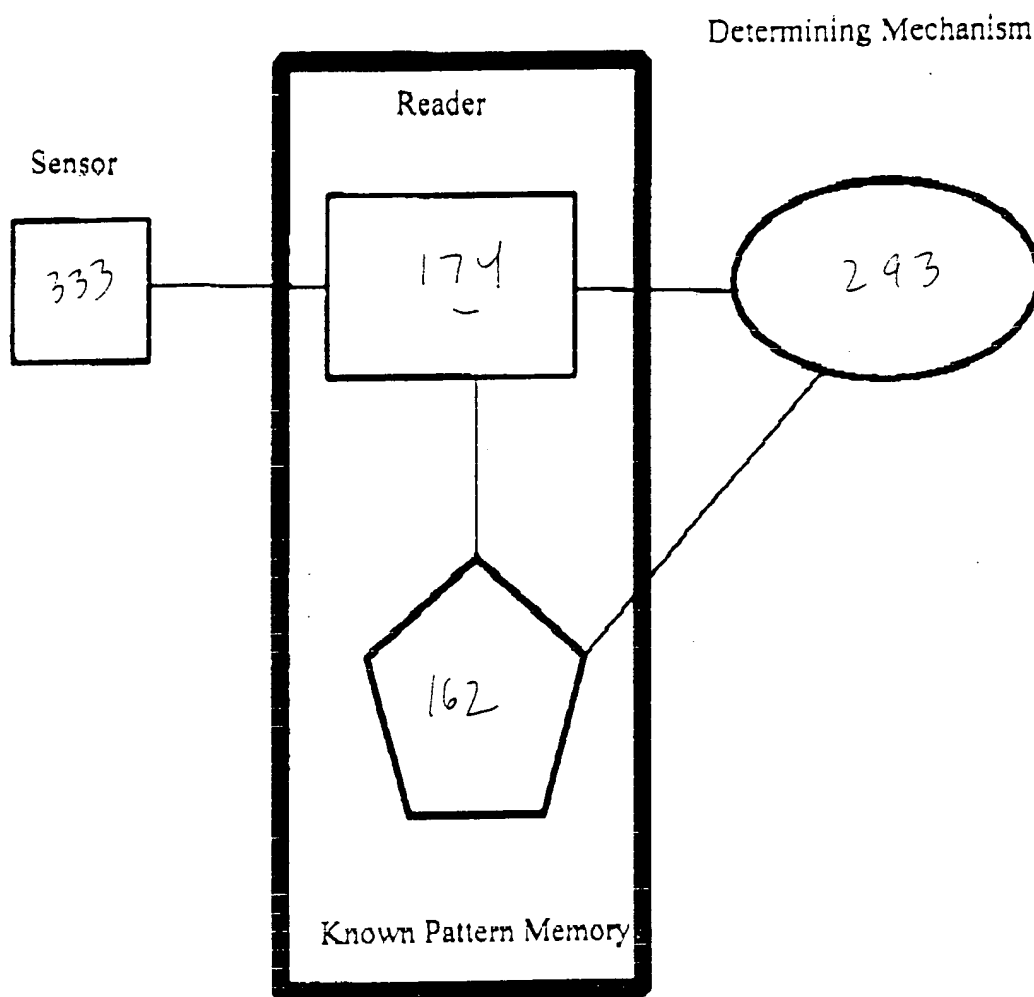
[illegible]

FIG 99

The diagram illustrates a pattern recognition system architecture. It consists of the following components and connections:

- Sensor:** A square box containing the handwritten number "333".
- Reader:** A square box containing the handwritten number "174".
- Determining Mechanism:** A large rectangular box on the right containing an oval with the handwritten number "293".
- Known Pattern Memory:** A pentagon containing the handwritten number "102".

The flow of data is as follows:

- A line connects the **Sensor** to the **Reader**.
- A line connects the **Reader** to the **Determining Mechanism**.
- A thick L-shaped line separates the **Determining Mechanism** from the **Known Pattern Memory**.
- A line connects the **Known Pattern Memory** to the **Determining Mechanism**.

FIG 100

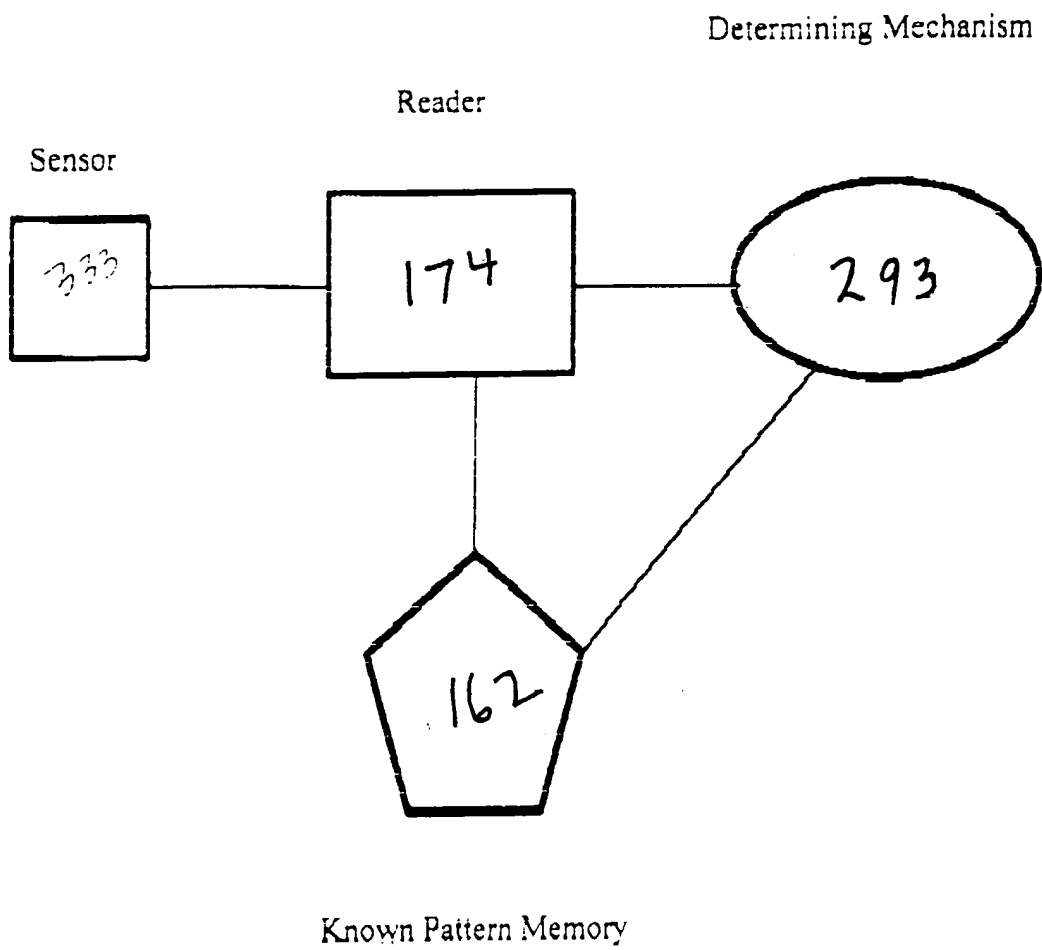
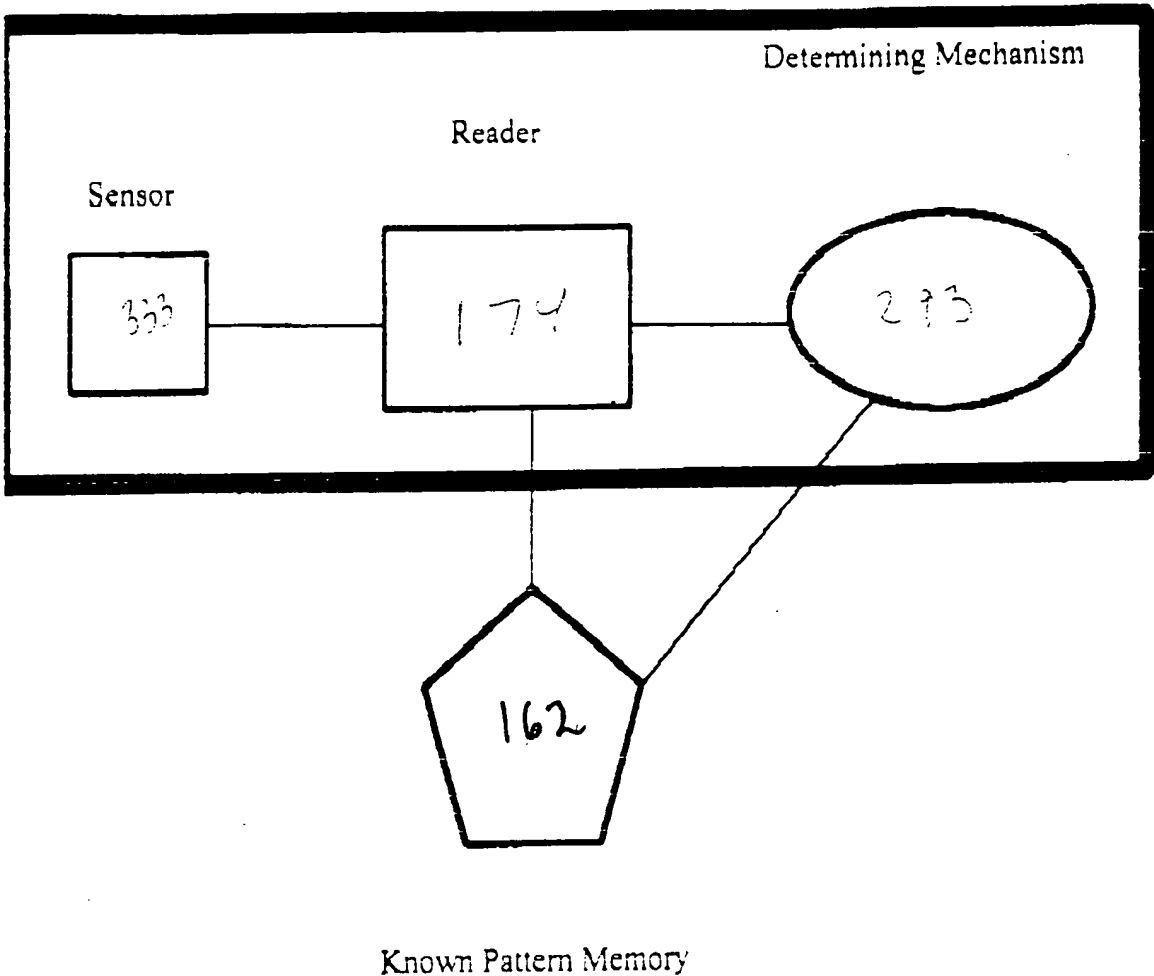


FIG 101

THE HISTORY OF THE



FLG 102

009430 219600

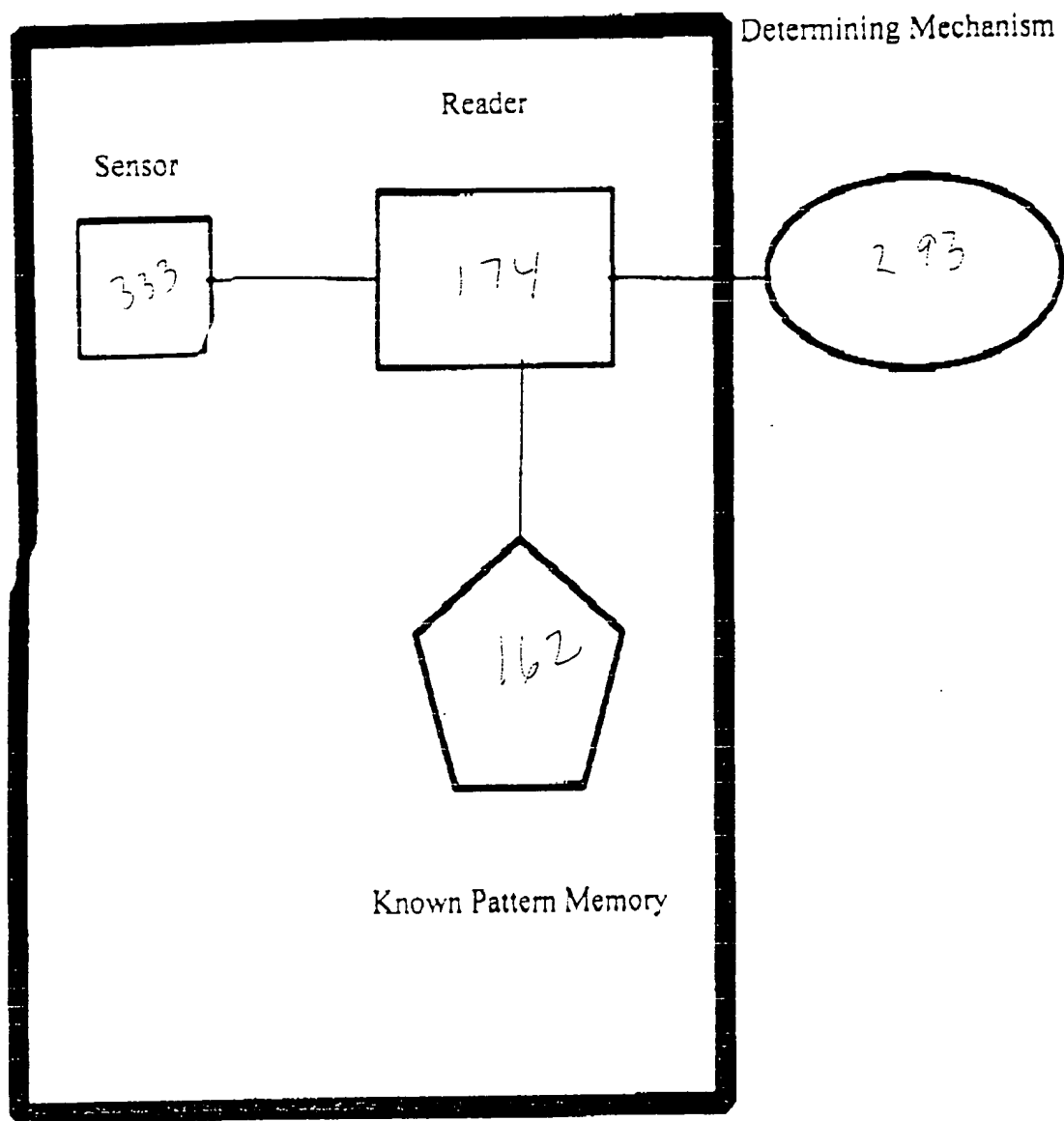


FIG 103

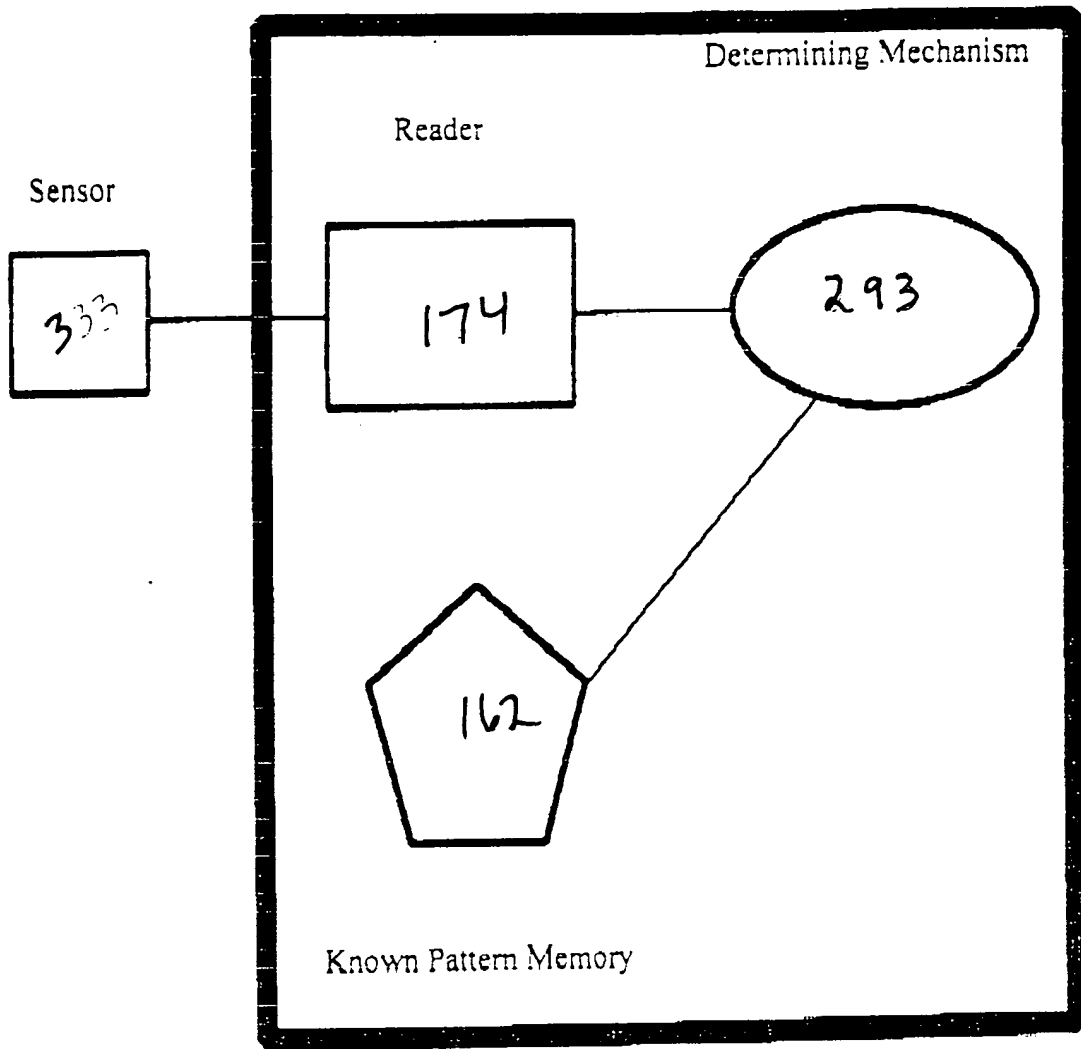
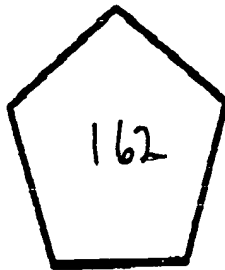
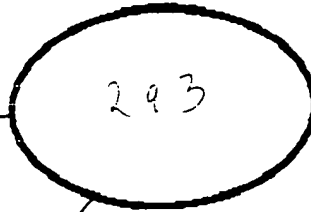
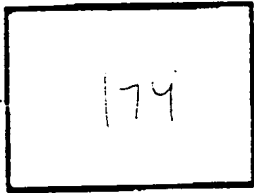


FIG 104

Determining Mechanism

Reader

Sensor



Known Pattern Memory

FIG 105

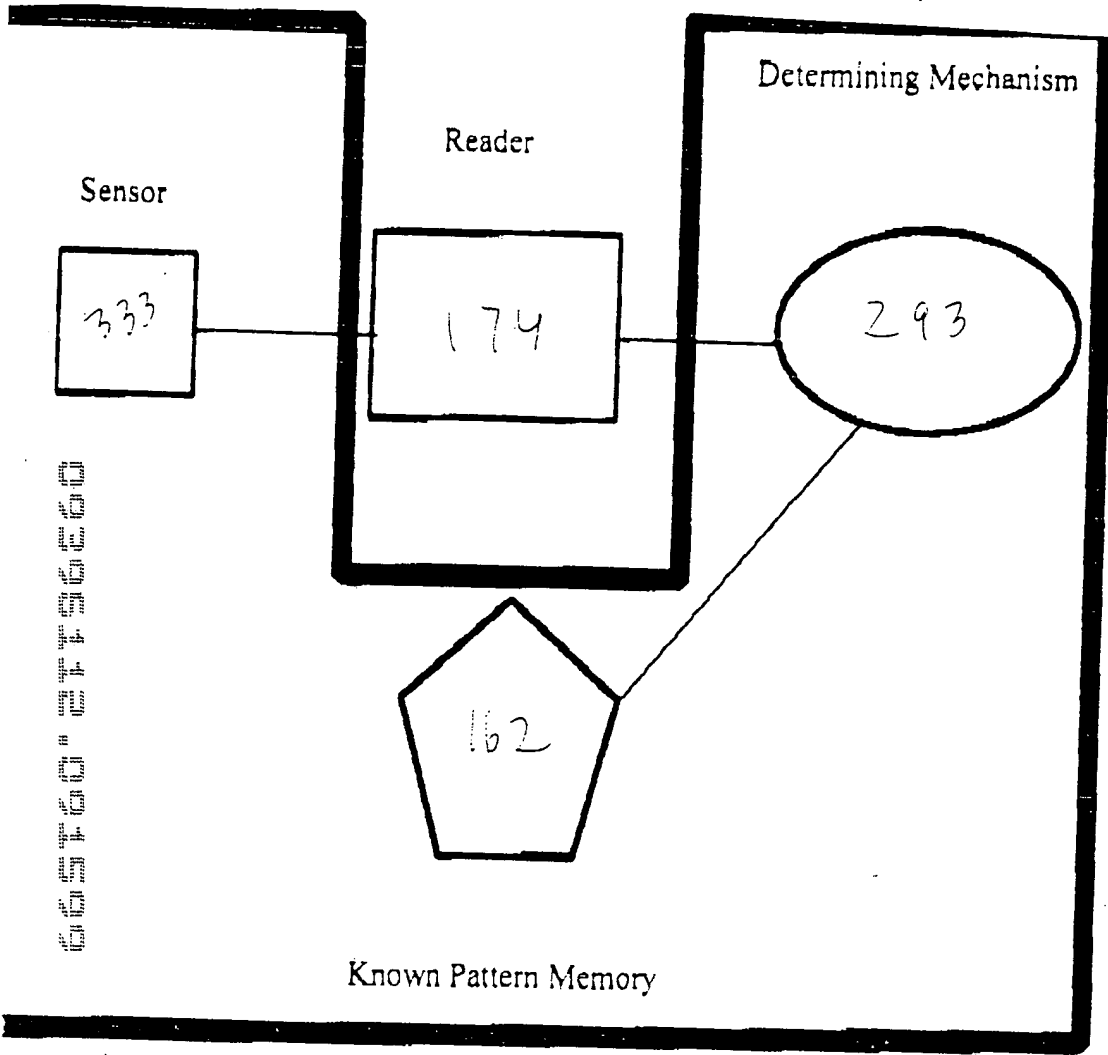


FIG 106

The diagram illustrates the proposed architecture for the intelligent sensor, showing the flow of data and processing. It includes the following components and connections:

- Sensor:** A square box containing the handwritten number "333".
- Reader:** A square box containing the handwritten number "174".
- Known Pattern Memory:** A large rectangular area on the right containing:
 - Determining Mechanism:** An oval shape containing the handwritten number "293".
 - Action Mechanism:** A hexagonal shape containing the handwritten number "335".

Data Flow:

- A horizontal line connects the **Sensor** to the **Reader**.
- A vertical line connects the **Reader** to a pentagonal shape containing the handwritten number "162".
- A line connects the **Reader** to the **Determining Mechanism**.
- A line connects the **Determining Mechanism** to the **Action Mechanism**.
- A line connects the **Action Mechanism** to the **Known Pattern Memory** area.

FIG 107

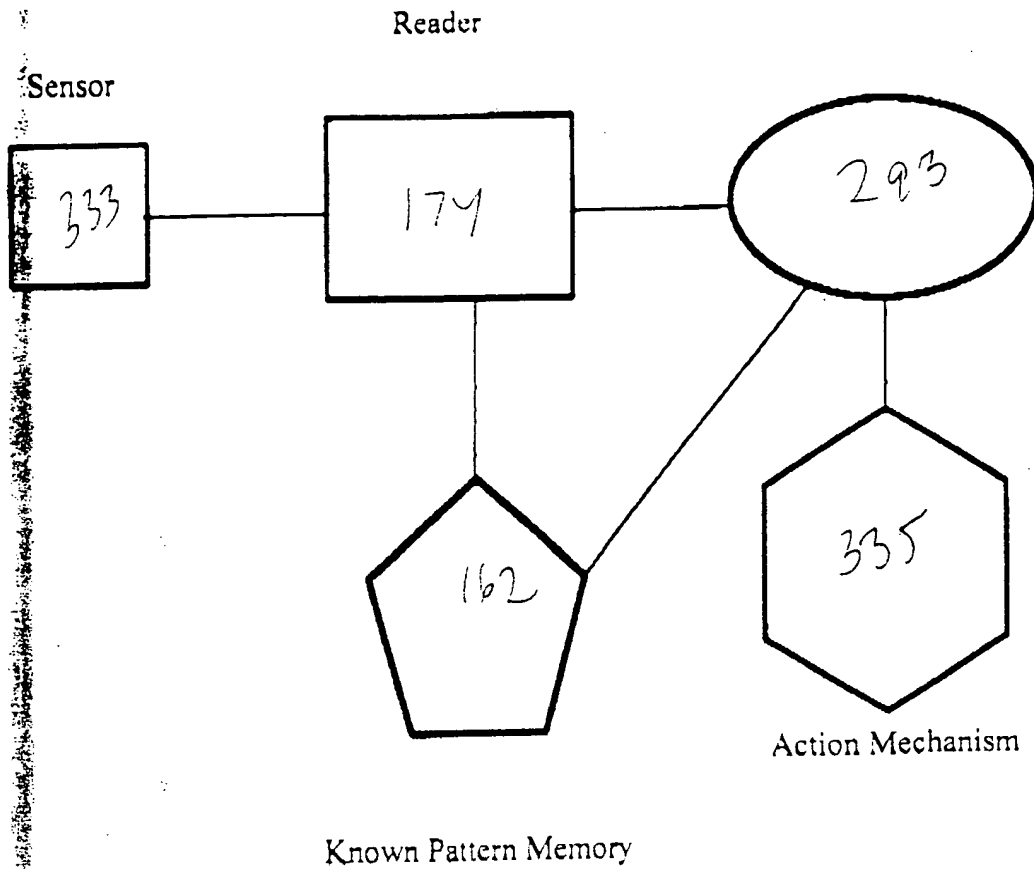


FIG 108

663160-243660

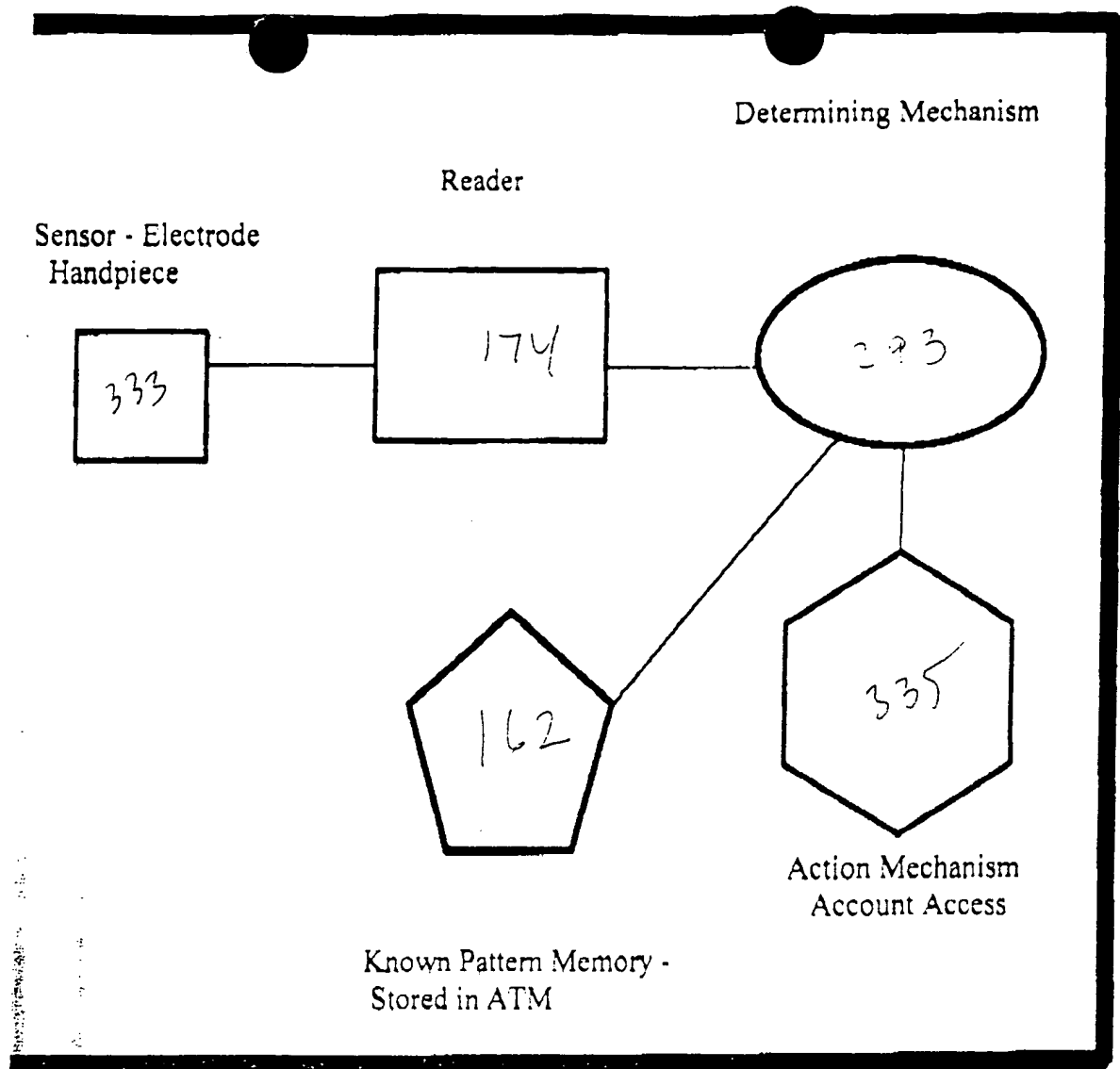


FIG 109

ATM

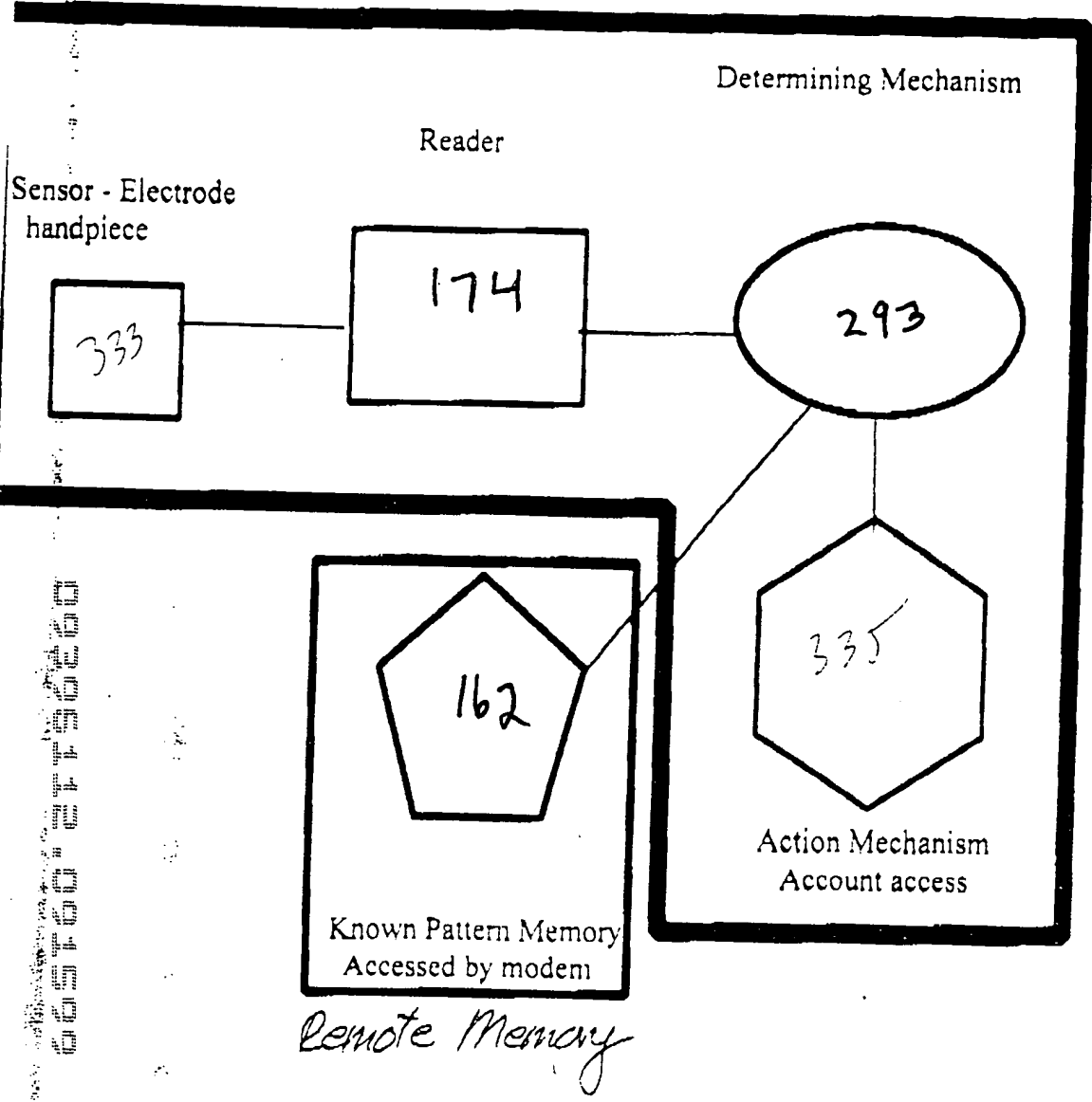


FIG 110

The diagram illustrates the system architecture, divided into two main functional areas:

- ATM (Left Section):**
 - Sensor - Electrode handpiece:** Contains a square box labeled **333**.
 - Reader:** Contains a square box labeled **174**.
 - Action Mechanism Account access:** Contains a hexagonal box labeled **335**.
- Bank Computer (Right Section):**
 - Determining Mechanism:** Contains an oval box labeled **293**.
 - Known Pattern Memory:** Contains a pentagonal box labeled **162**.

Connections:

- A line connects the **333** box to the **174** box.
- A line connects the **174** box to the **293** oval.
- A line connects the **335** hexagon to the **162** pentagon.
- A line connects the **293** oval to the **162** pentagon.

FIG. 111

Handpiece

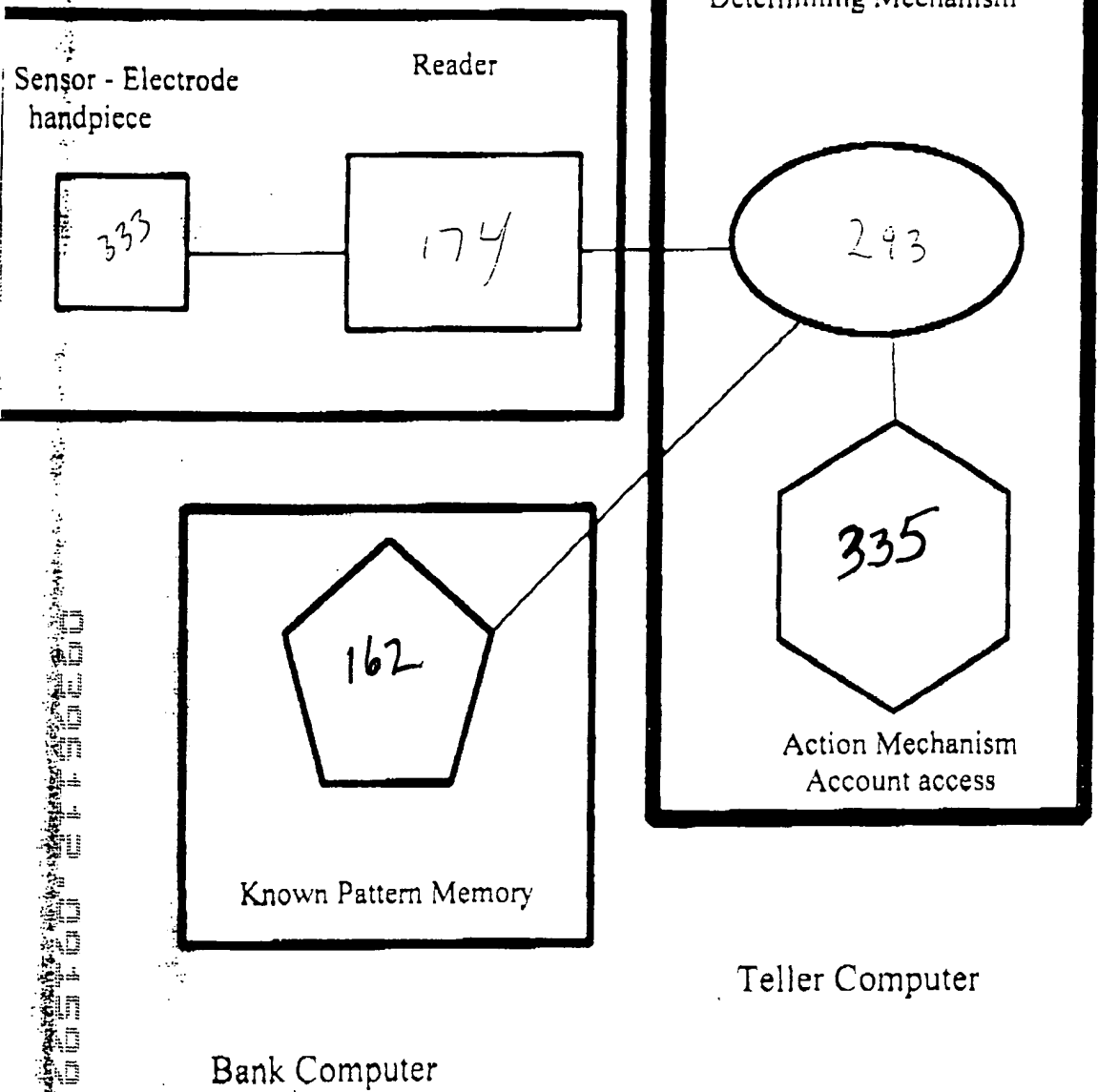


FIG 112

Handpiece

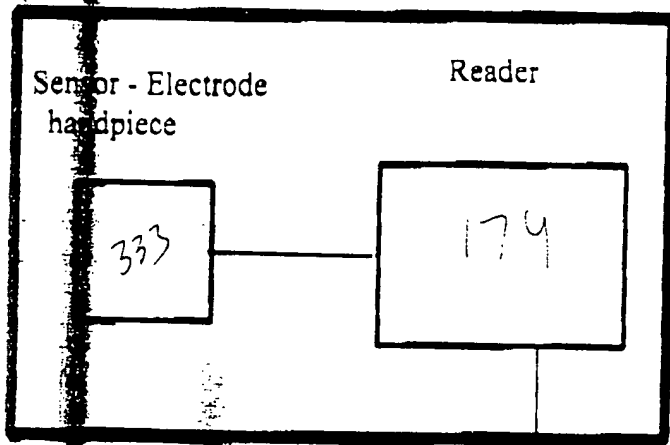
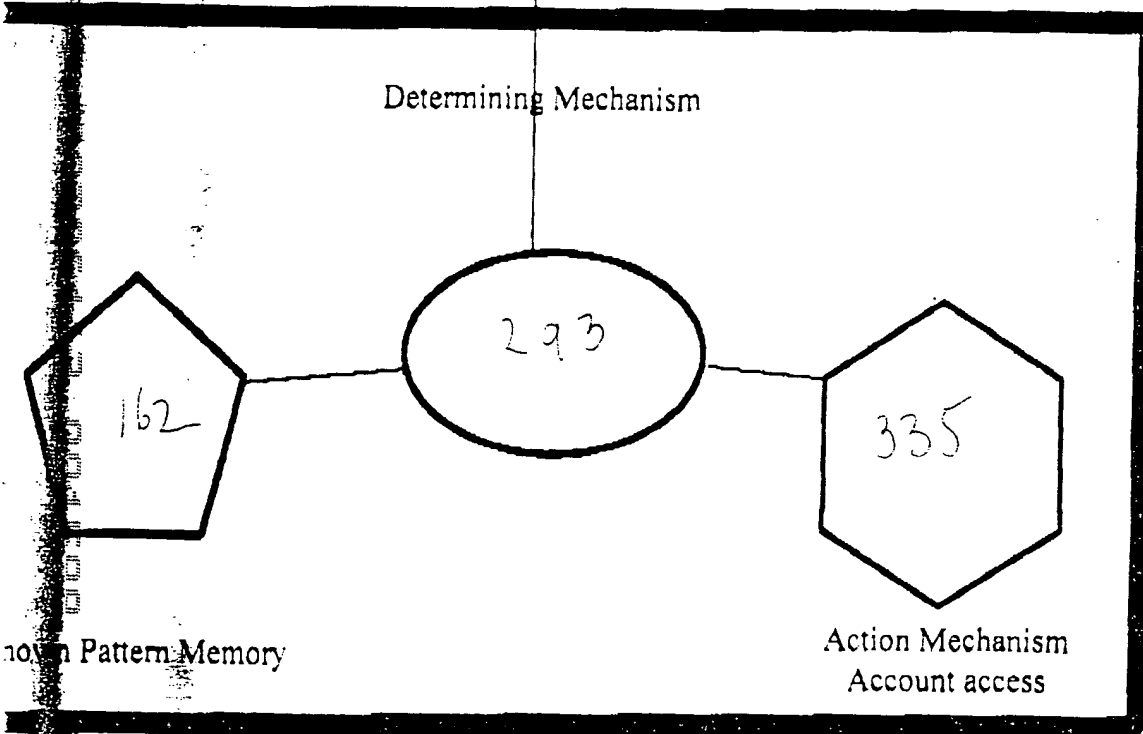


FIG 113



Teller Computer and Display

Card Reader Combination

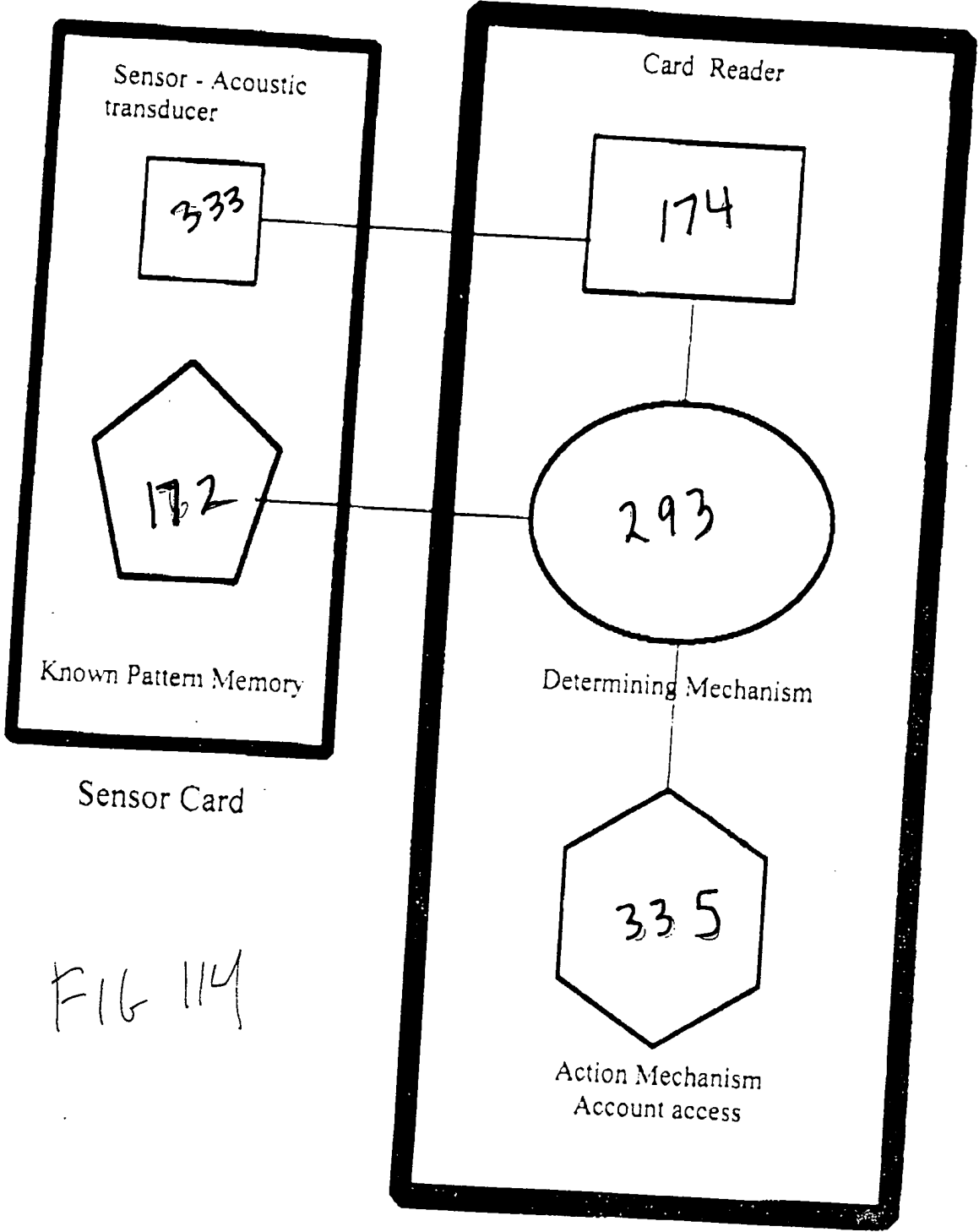
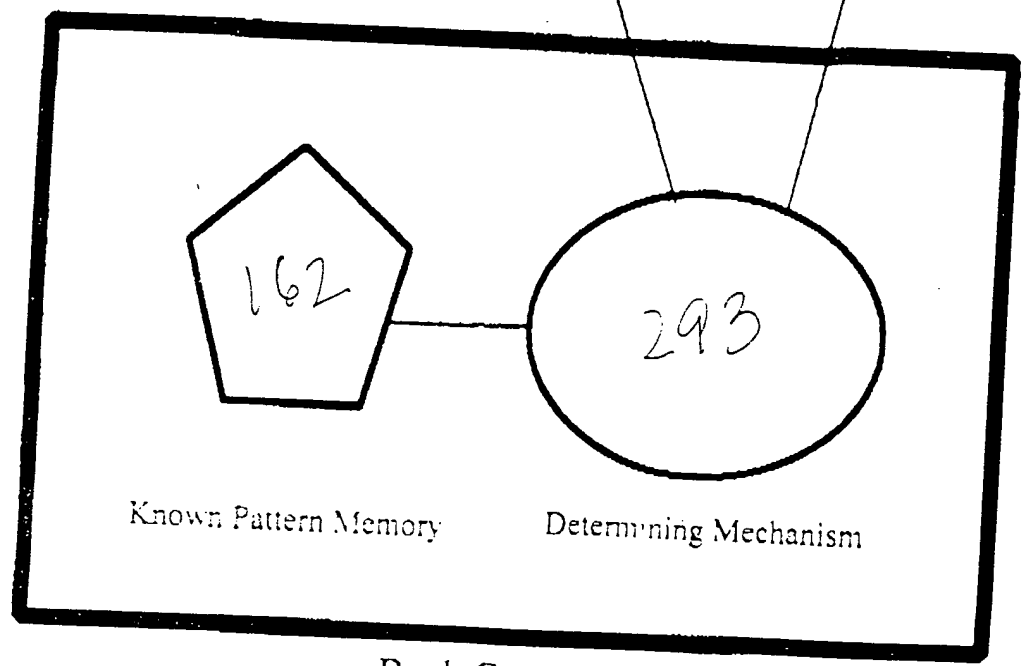
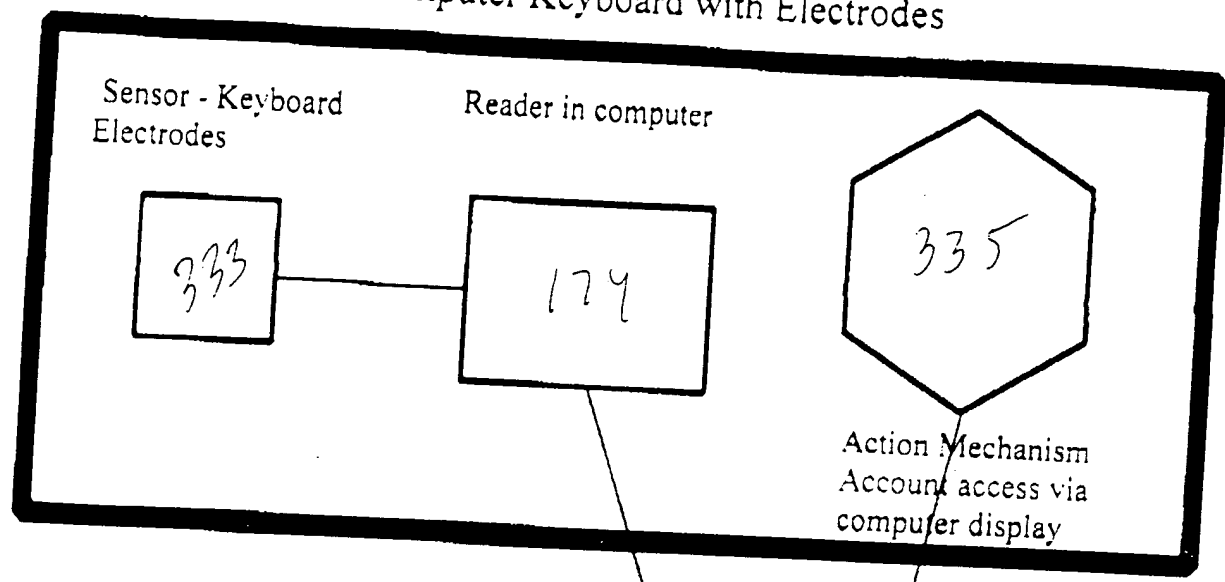


FIG 114

1000512.001500

FIG 115

Computer Keyboard with Electrodes

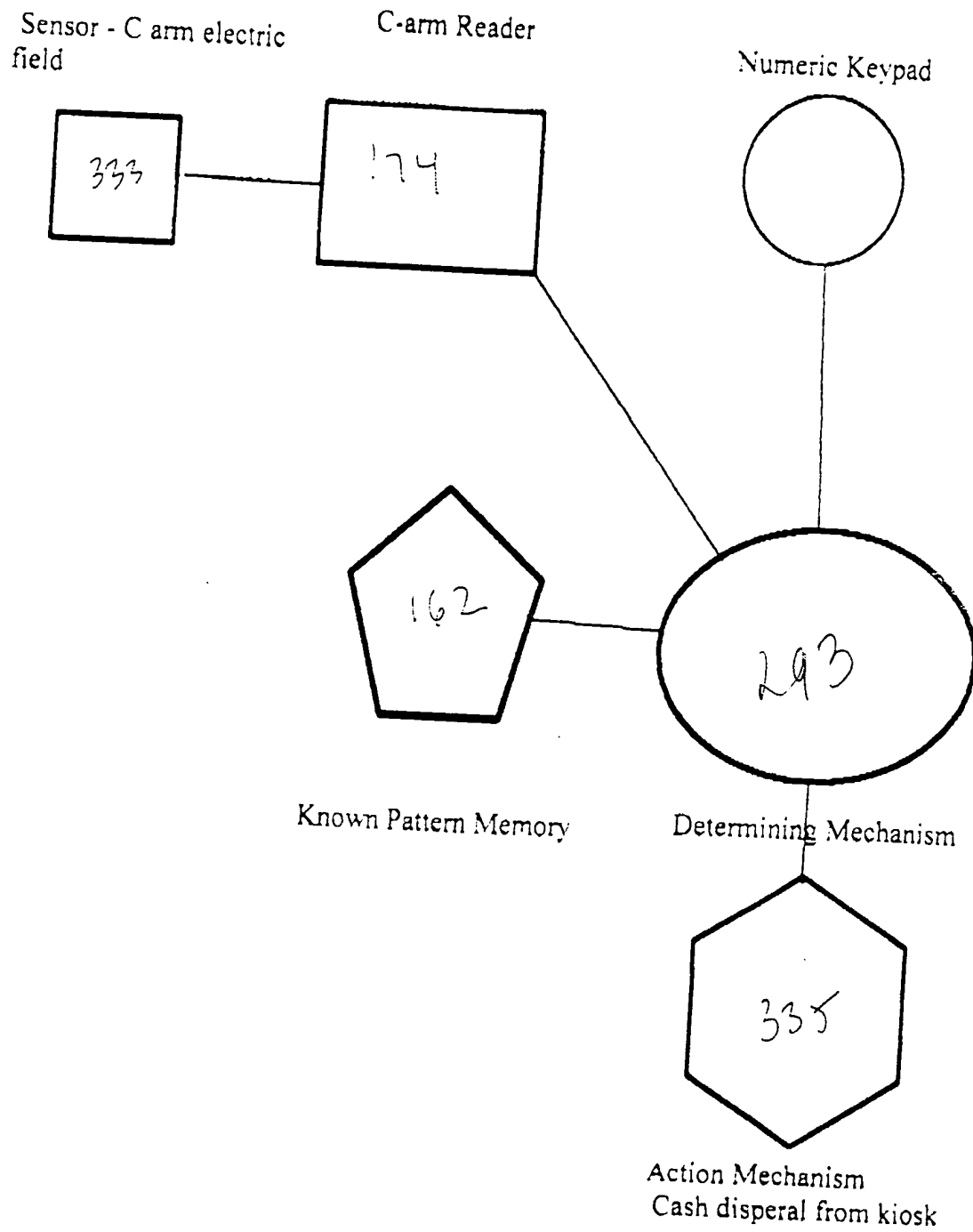


Bank Computer 158

6651011219660

Kiosk Combination Device

FIG 116



Card Reader Combination

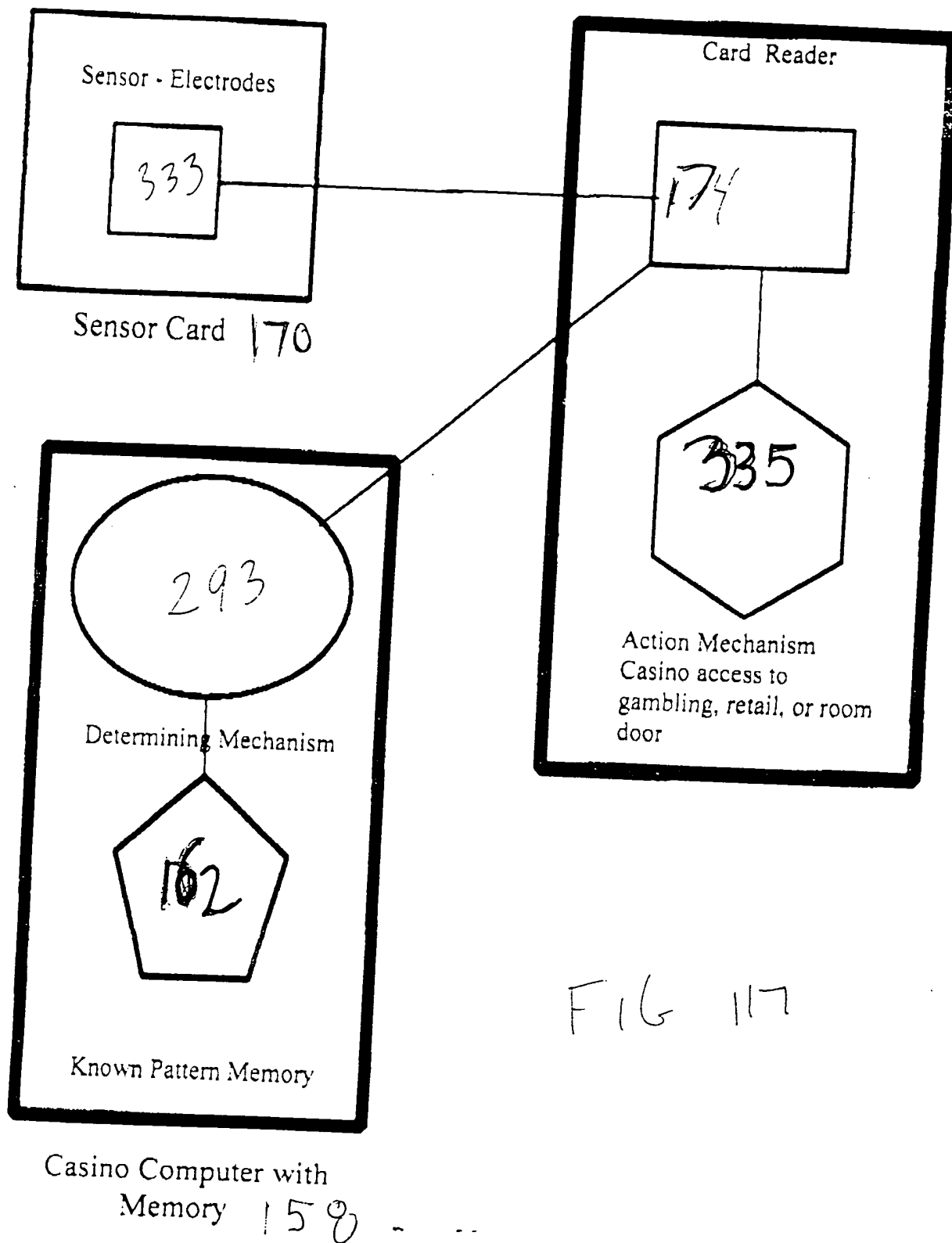


FIG 117

Card Reader Combination

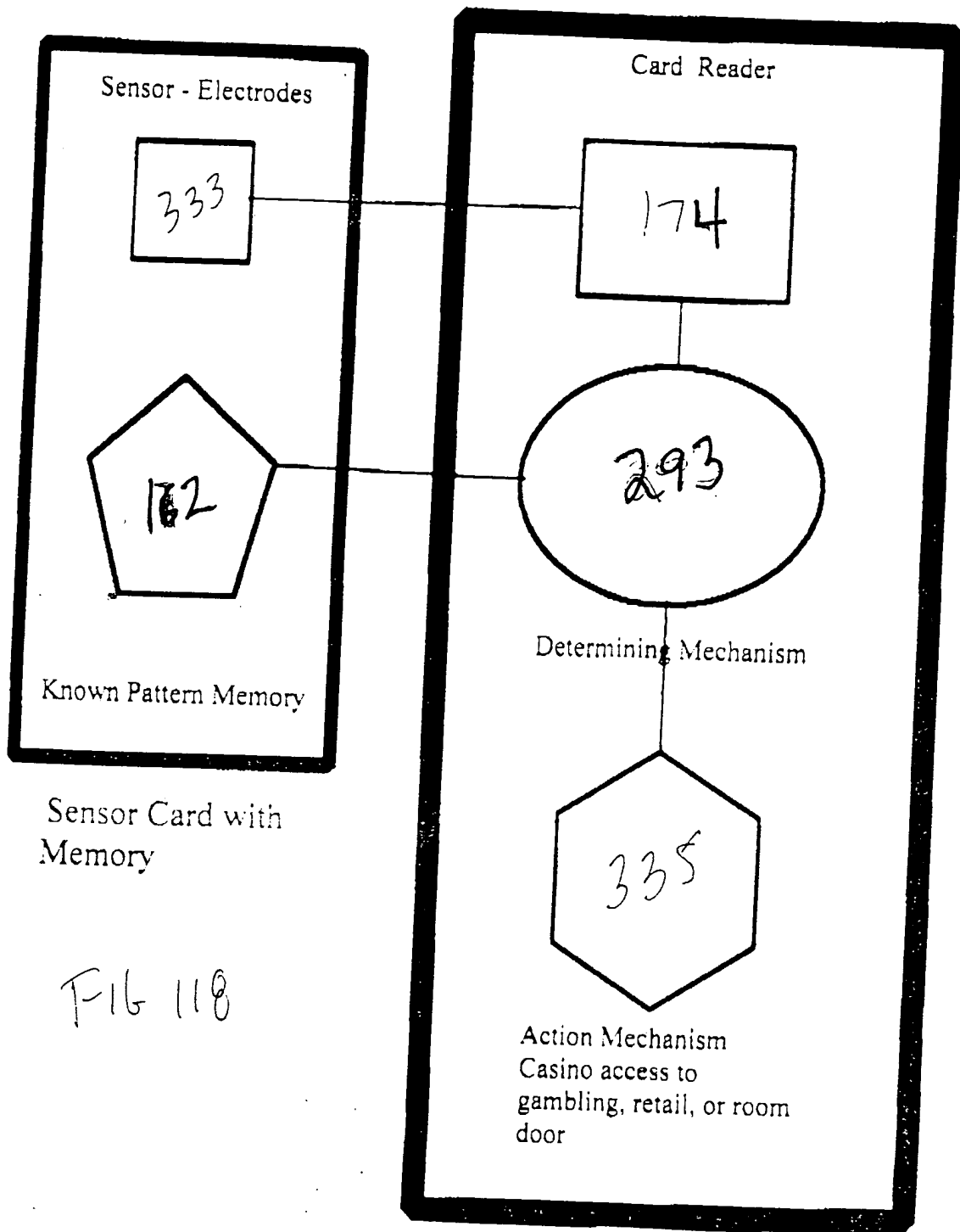


FIG 118

Card Reader Combination

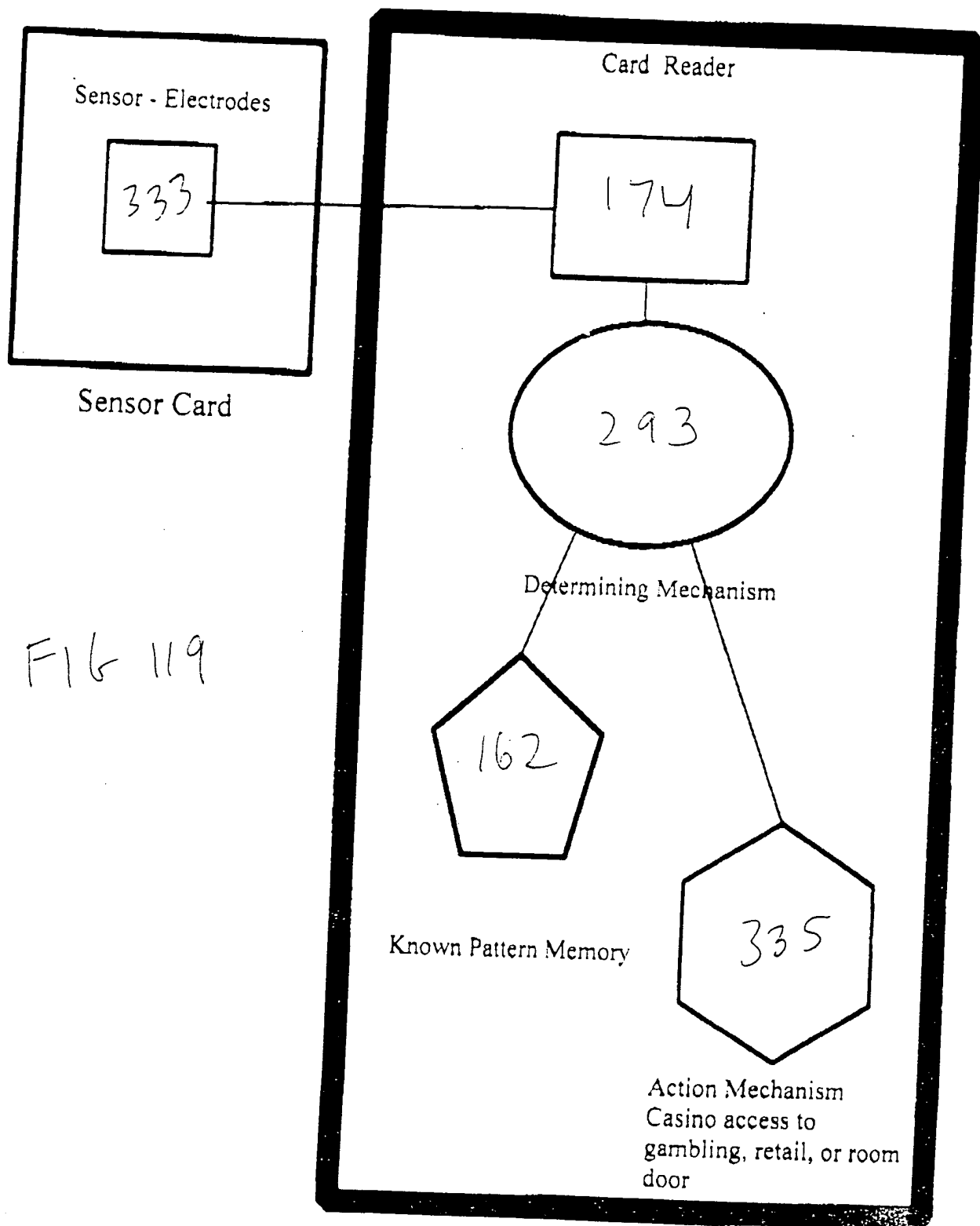
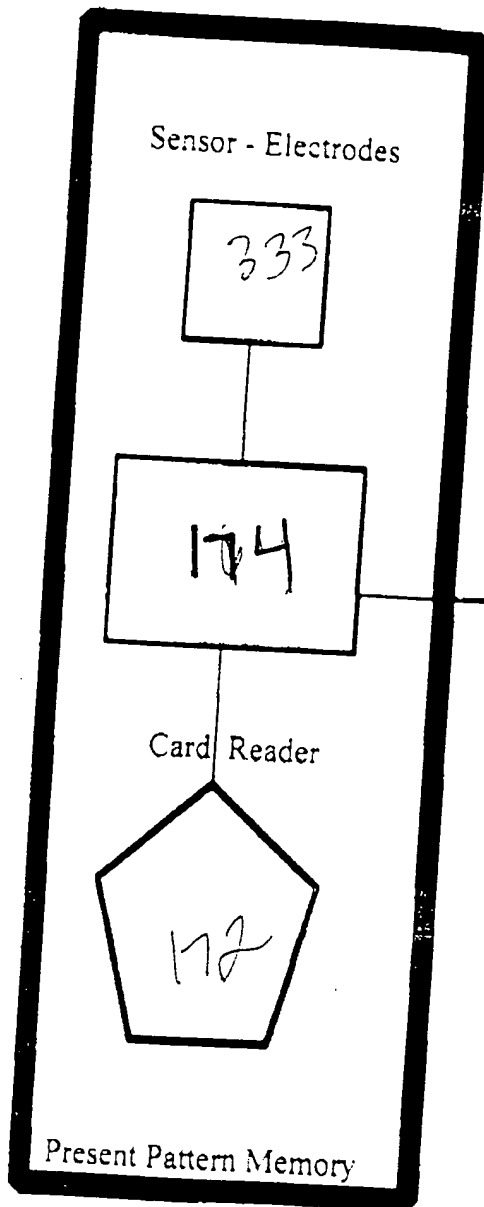
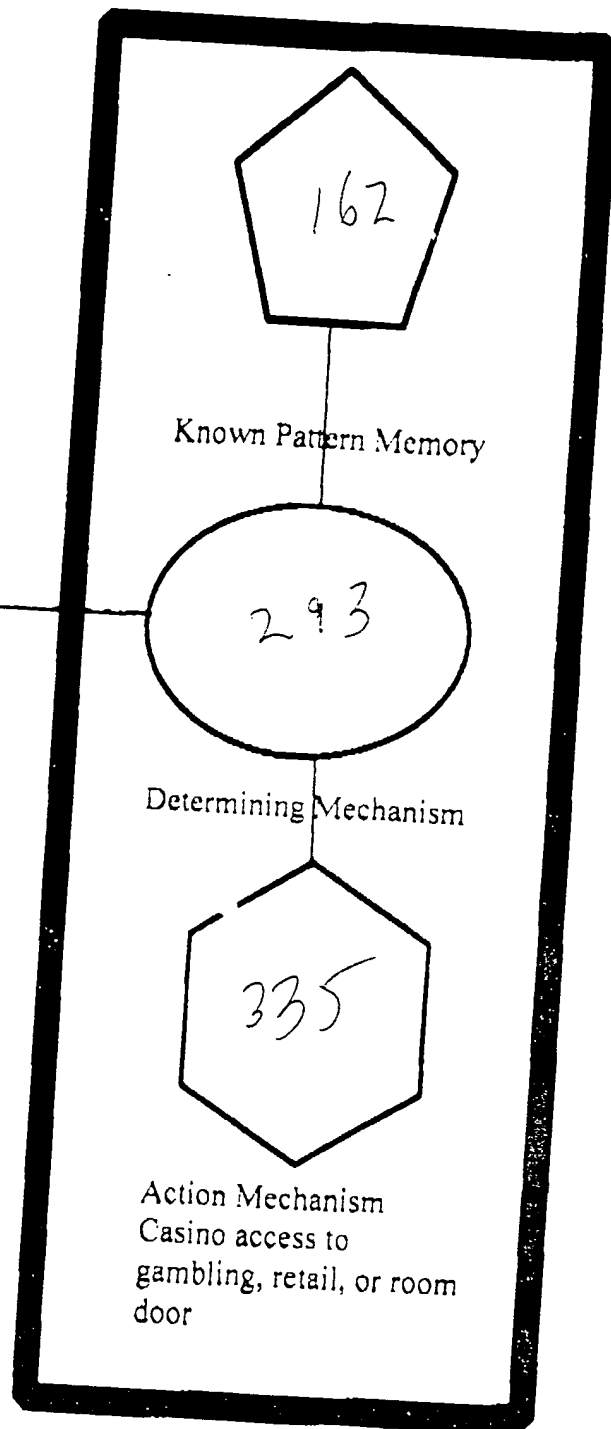


FIG 119



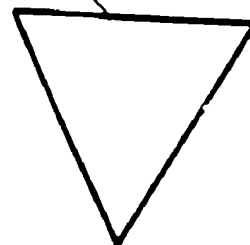
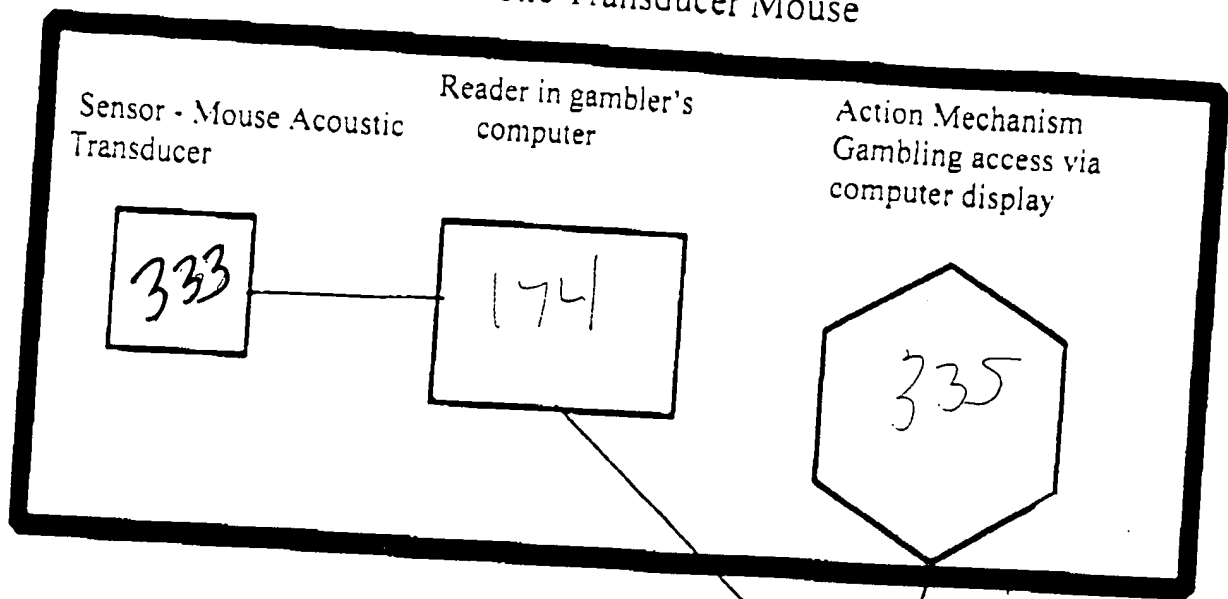
Sensor/Reader Card



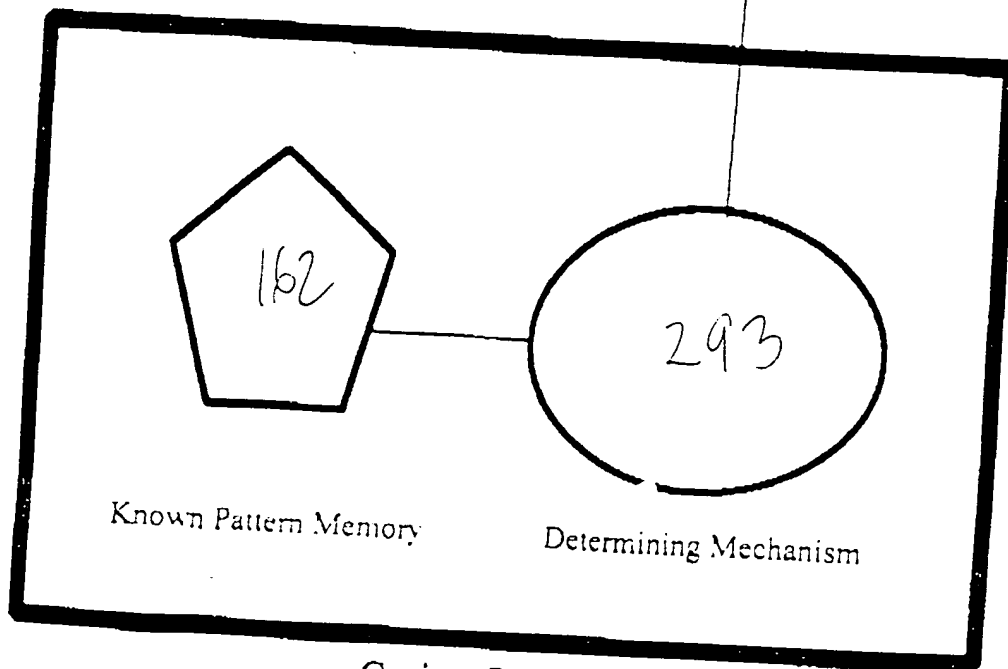
Waiter's Determining Unit

FIG 120

Acoustic Transducer Mouse



Internet

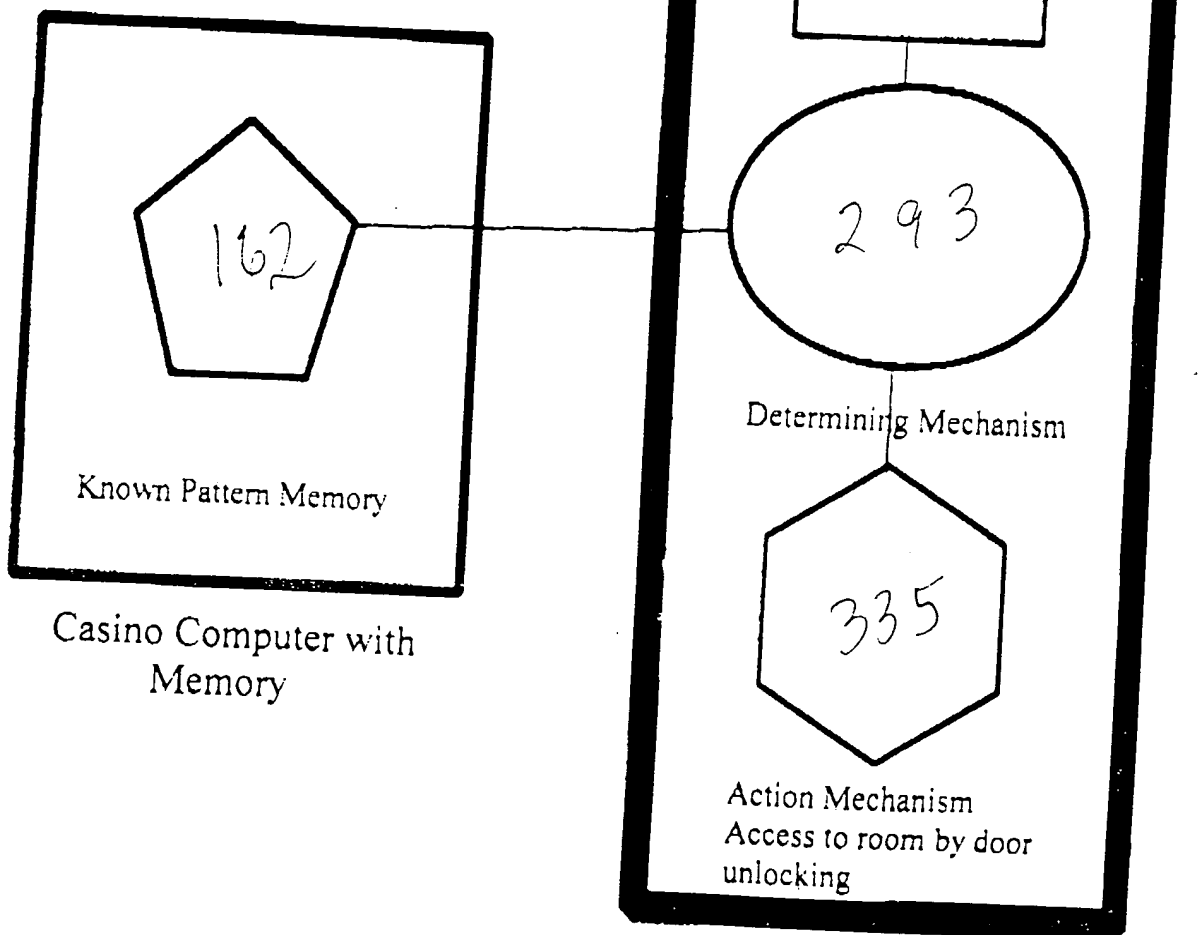


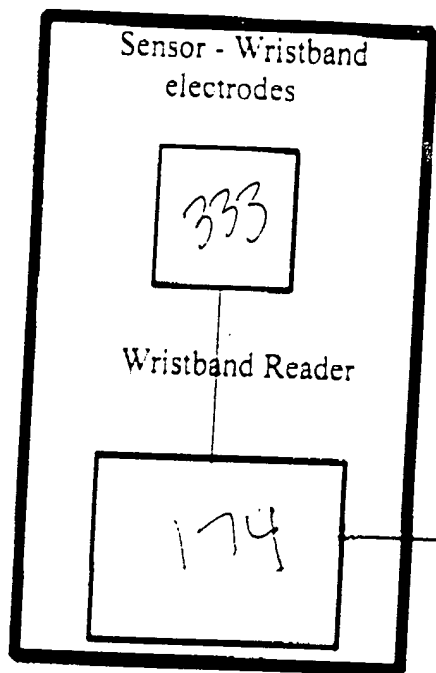
Casino Computer

158

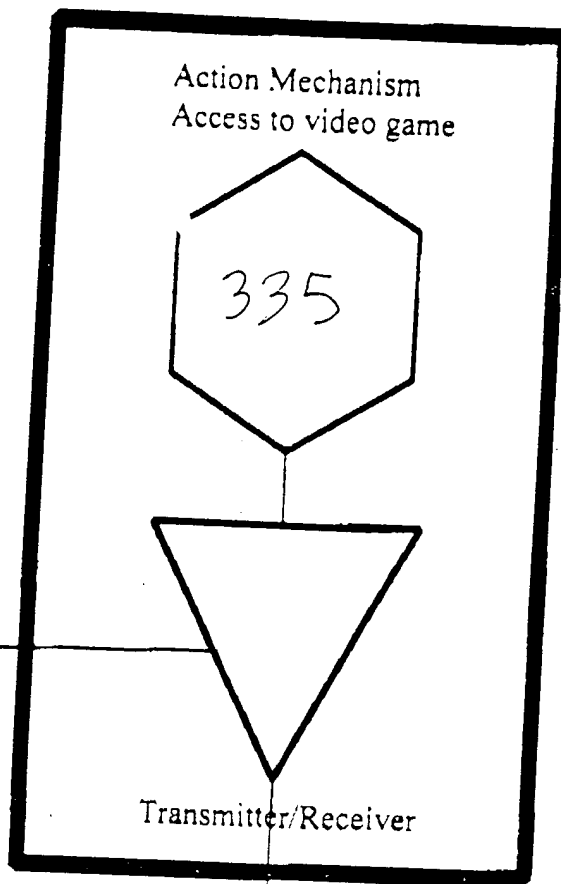
FIG
121

FIG 122

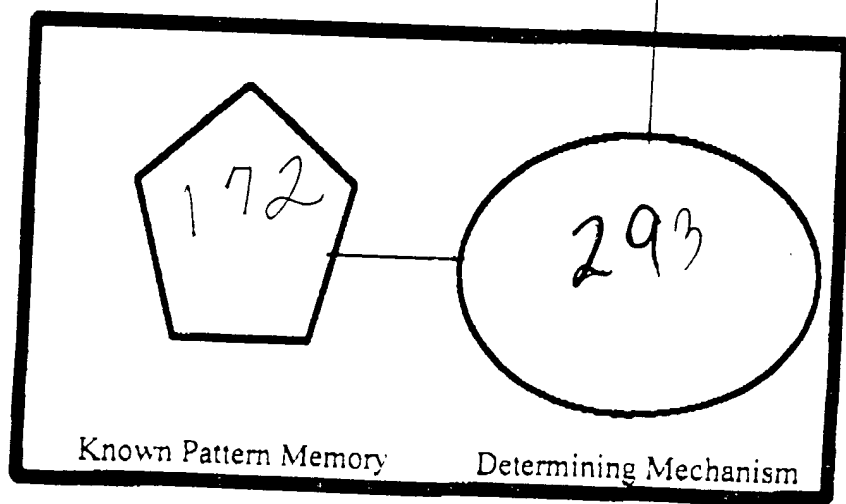




Sensor Wristband with Microprocessor

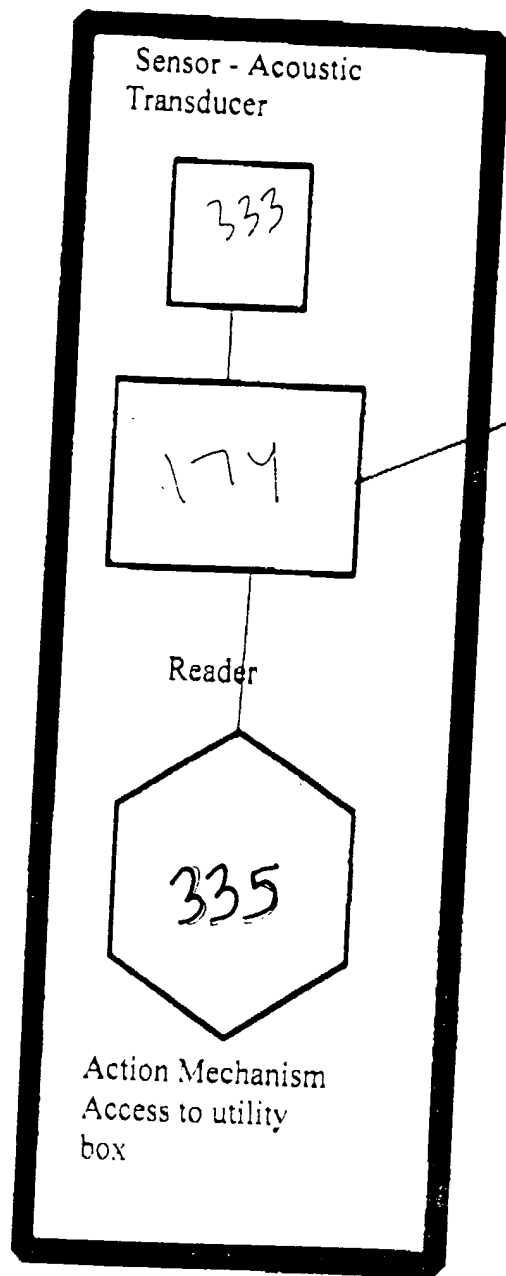


Video Game

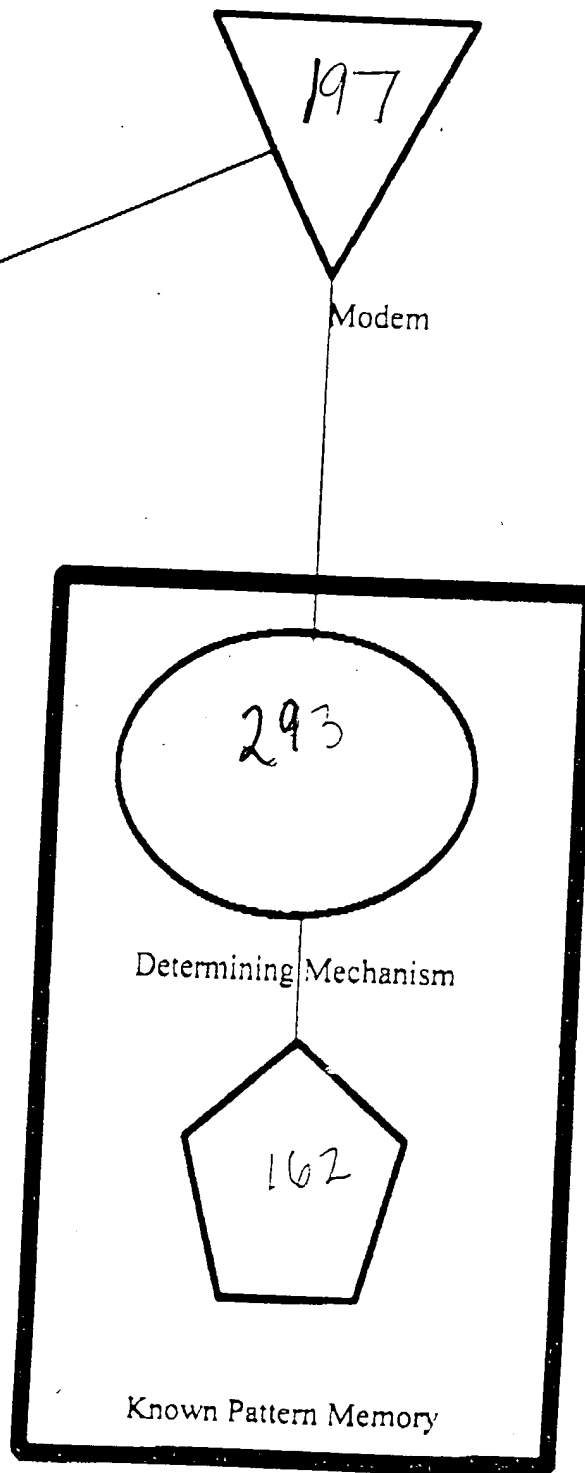


Video Arcade Cash Register 150

FIG
123



Utility Box with Sensor



Telephone Company Computer

FIG 124

158

Utility Box

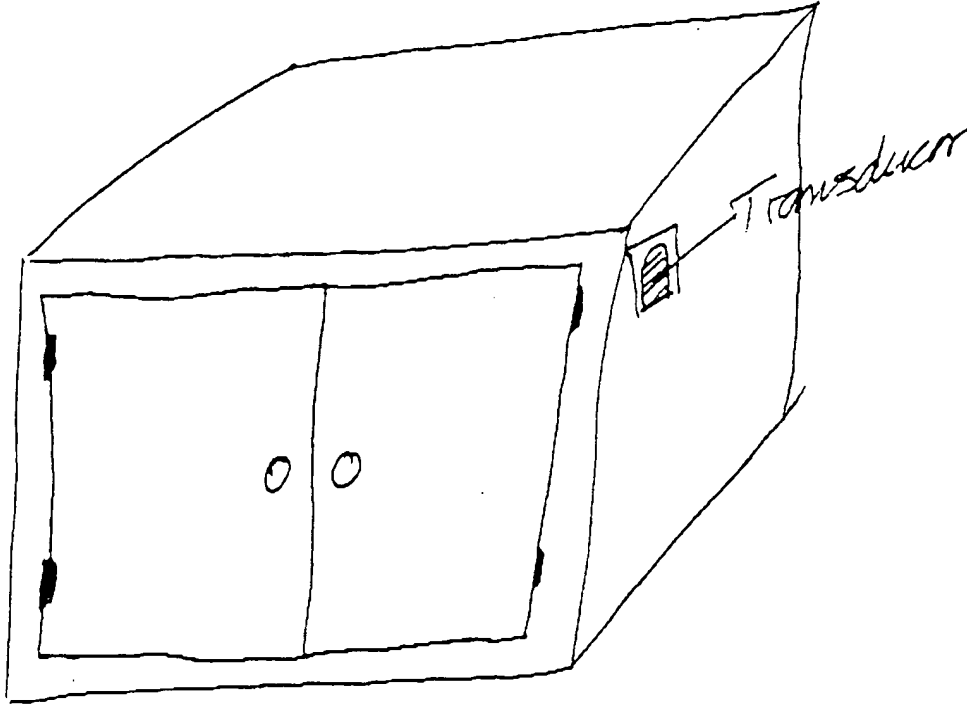


FIG.
124a

Card Reader Electricity Meter

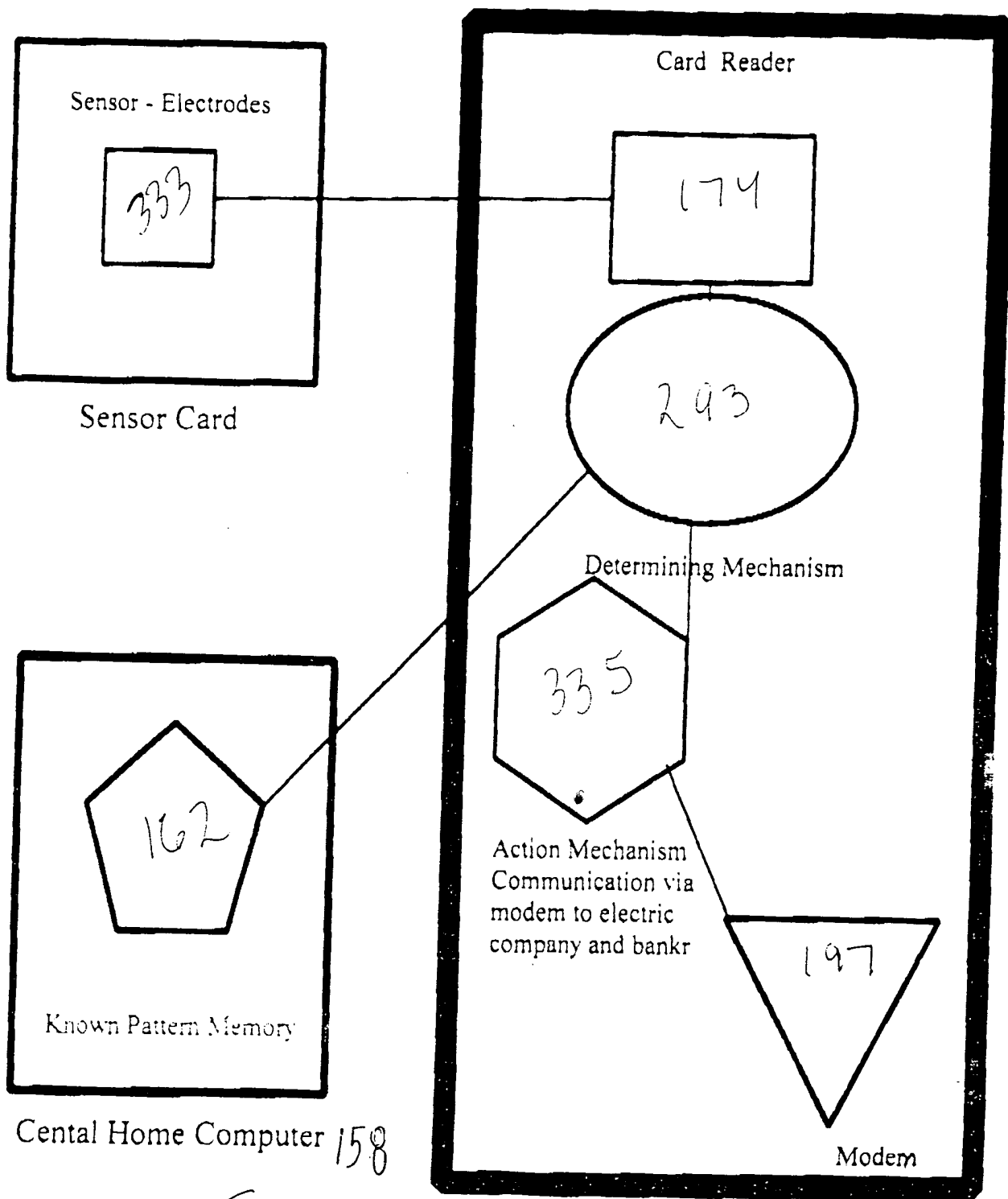
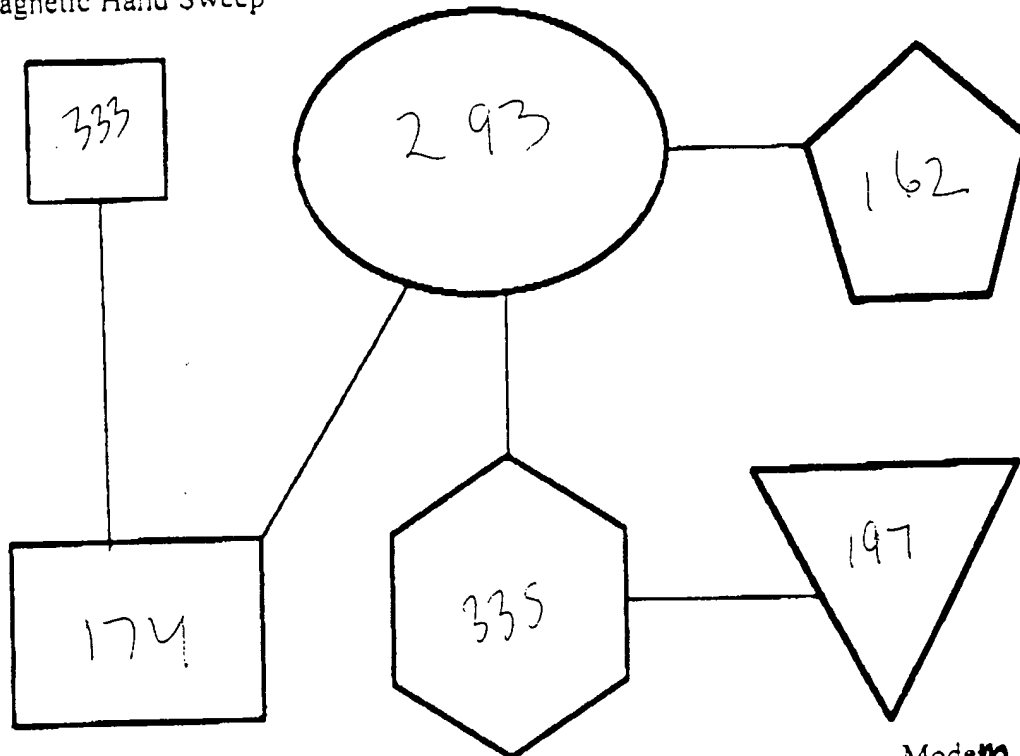


FIG 125

Sensor - Touchless
Magnetic Hand Sweep

Determining Mechanism

Known Pattern Memory -



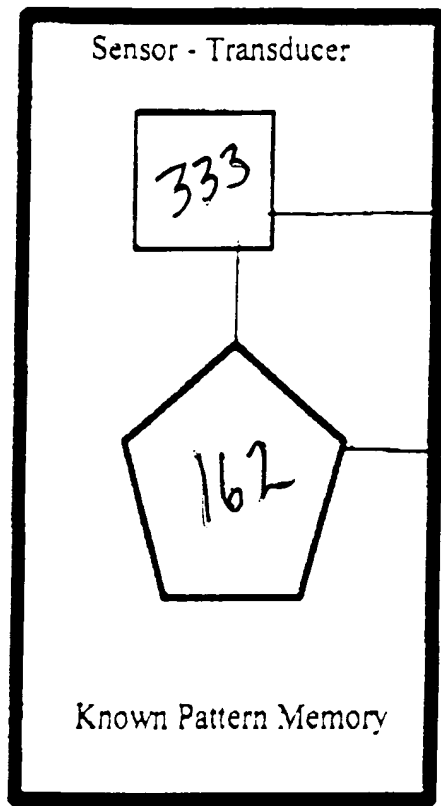
Reader

Action Mechanism
Modem information to
bank and electric
company

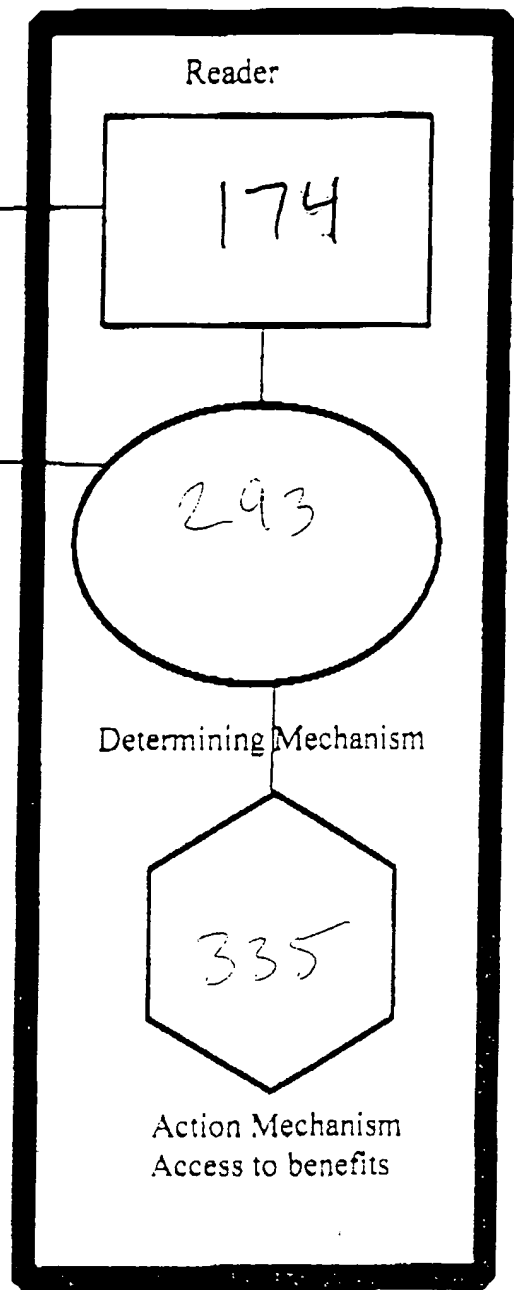
Modem

F16 126

659460-019660



Benefits smart card with transducer



Smart card reader

FIG 193

Acoustic Handpiece at Cash Register

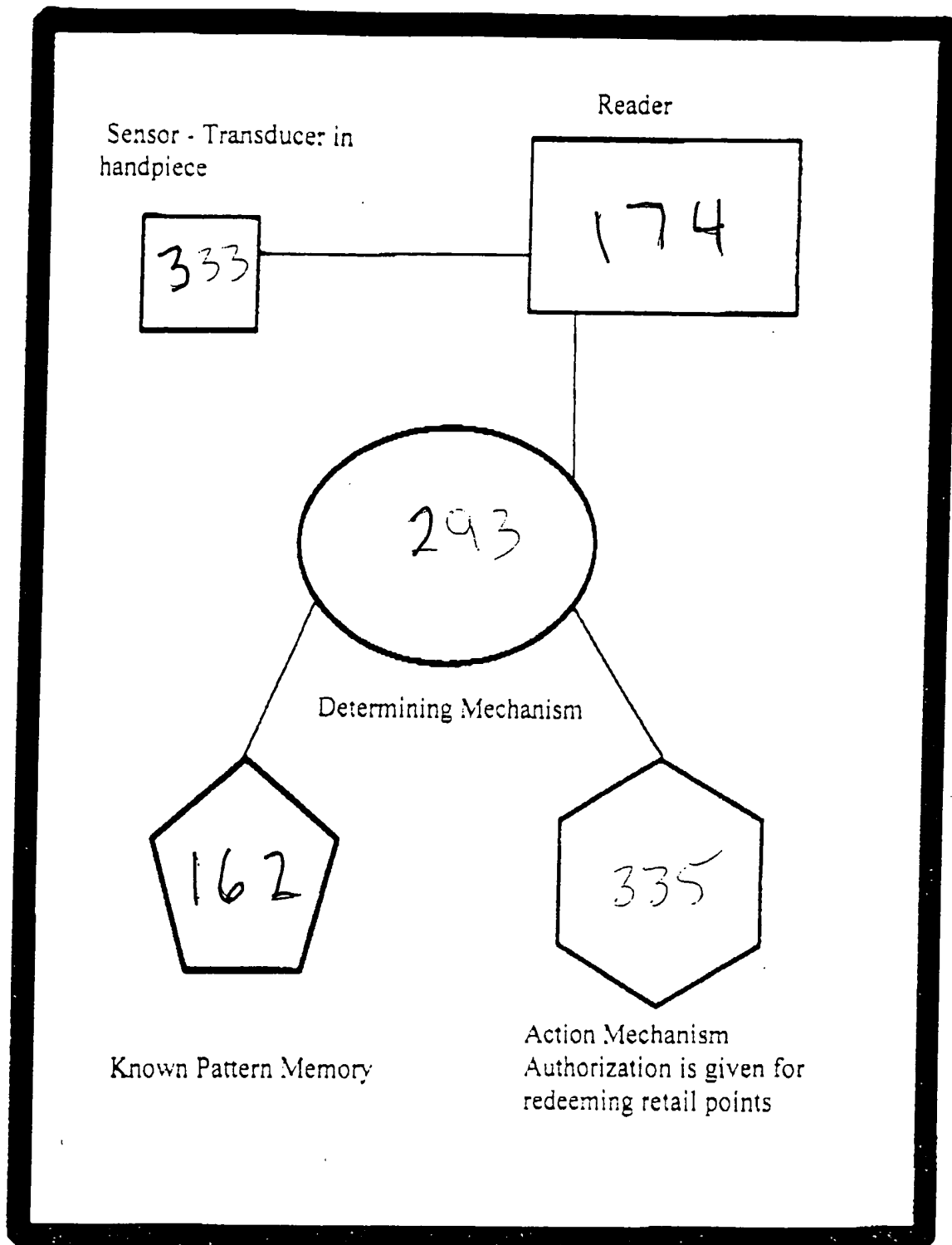


FIG 191

00306413.001699
665760"ET456600

Mouse with electrodes or transducer

Reader Unit communicating with mouse

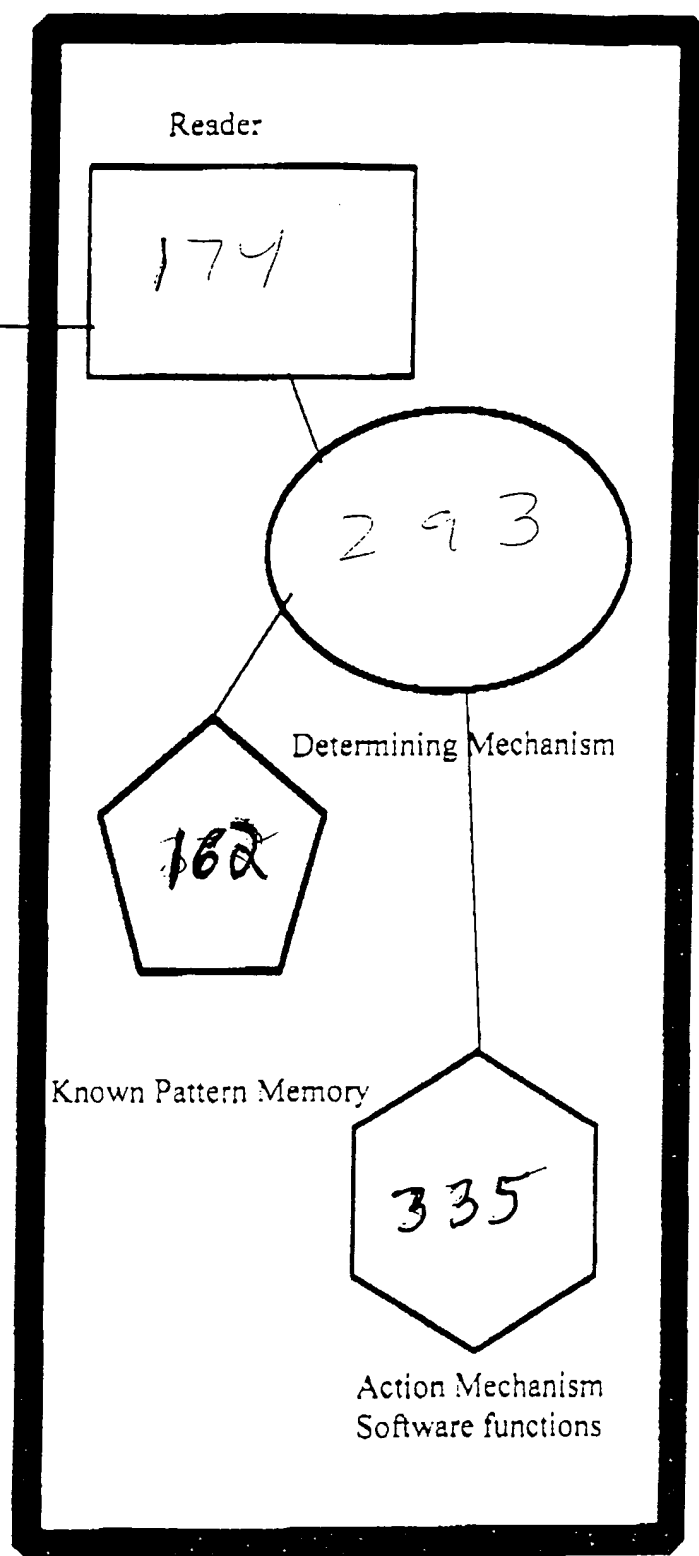
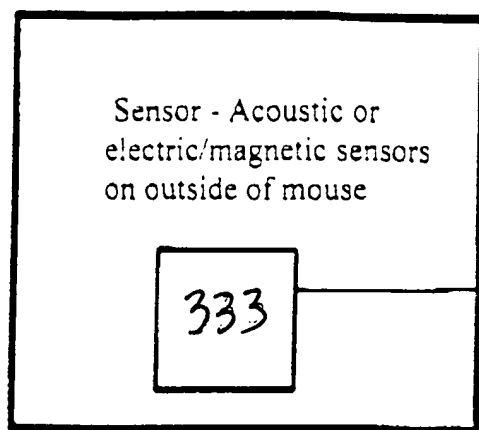
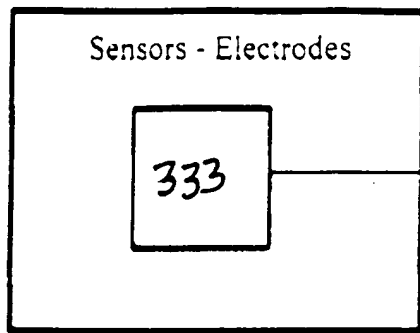
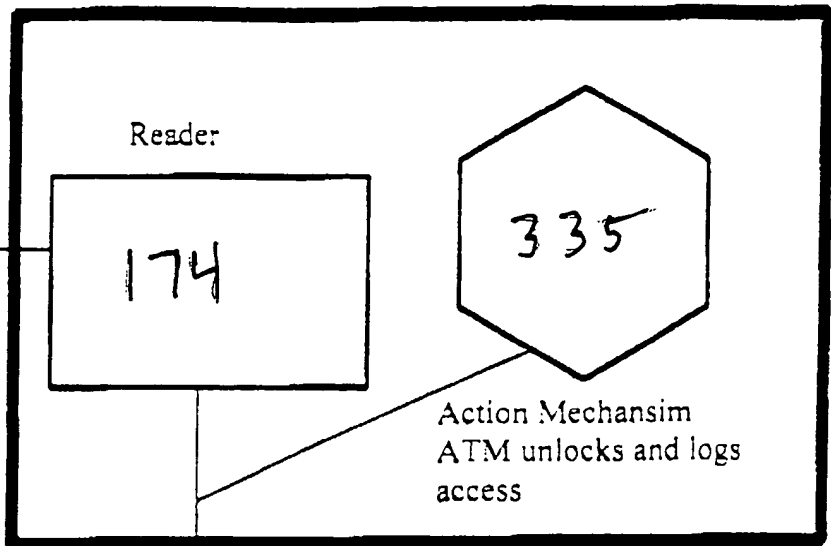


FIG 194

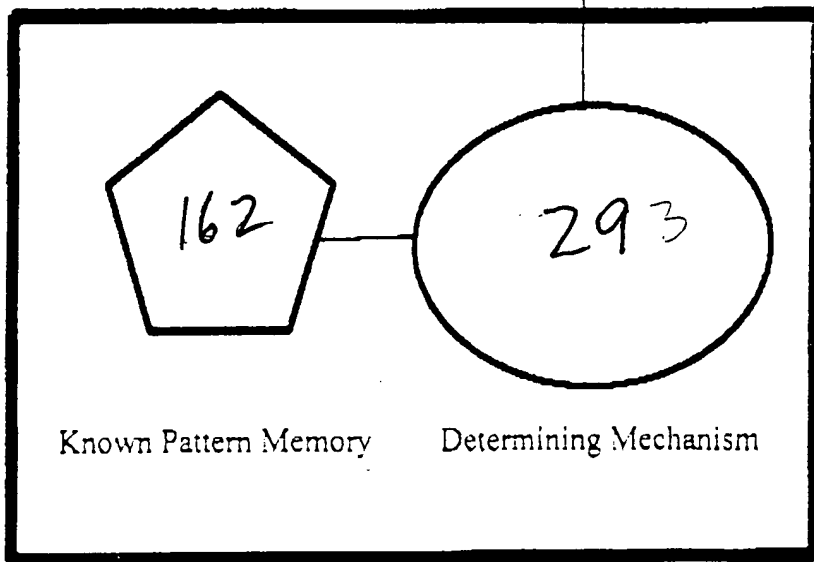
665460 249660



Electrode Sensor Card



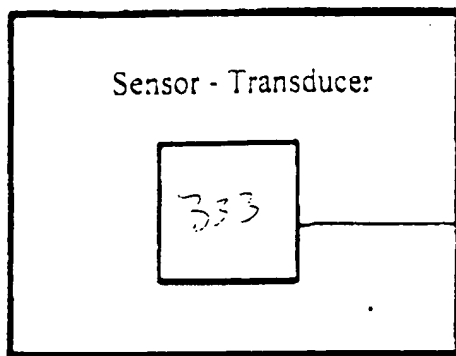
ATM Card Reader



Bank ATM Access Computer

FIG 195

603160 219660



Card with transducer

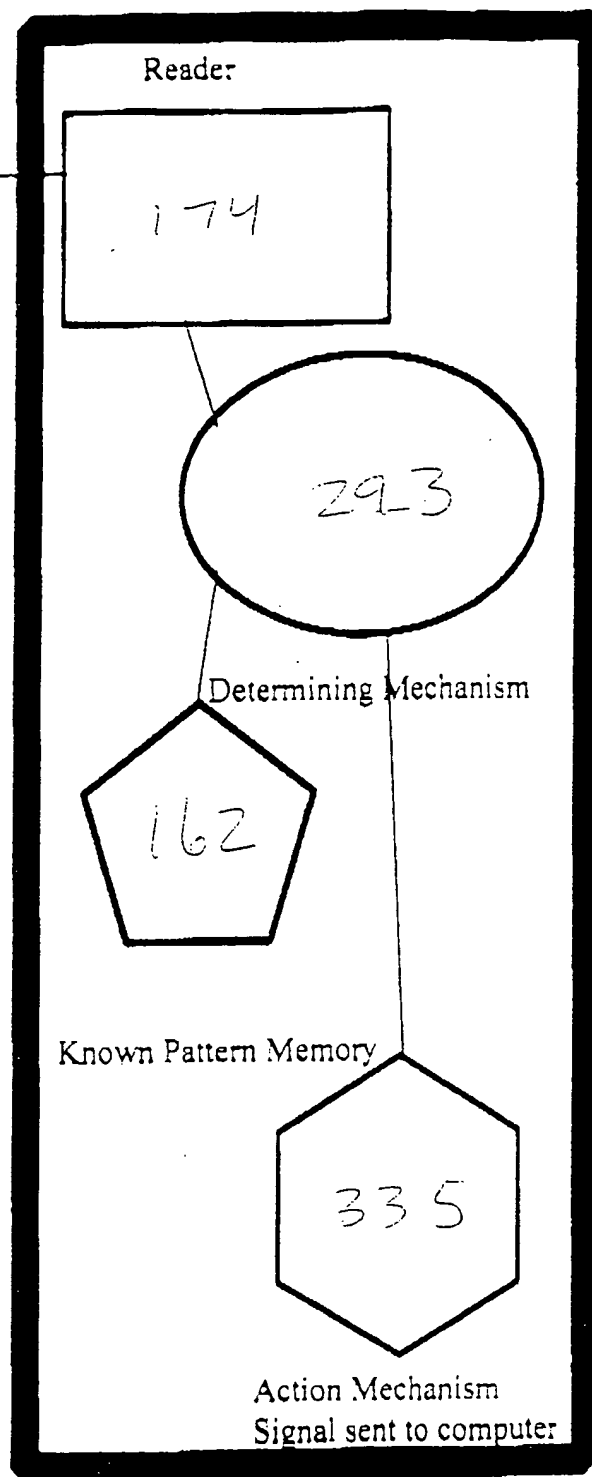


FIG.
196

Wireless Car System
Communicating with GPS and
home office

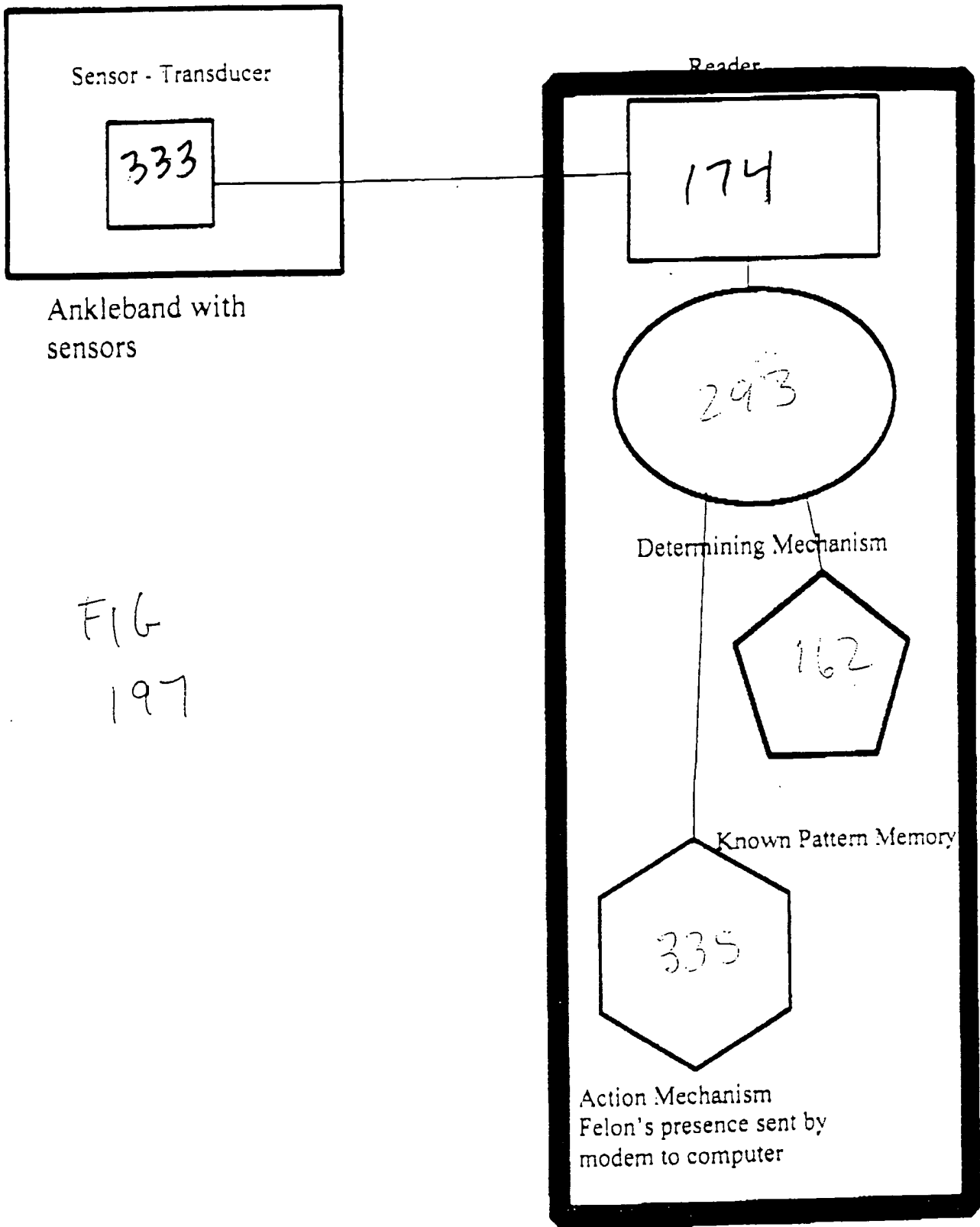


FIG
197

Reader Unit Attached to Felon's Telephone

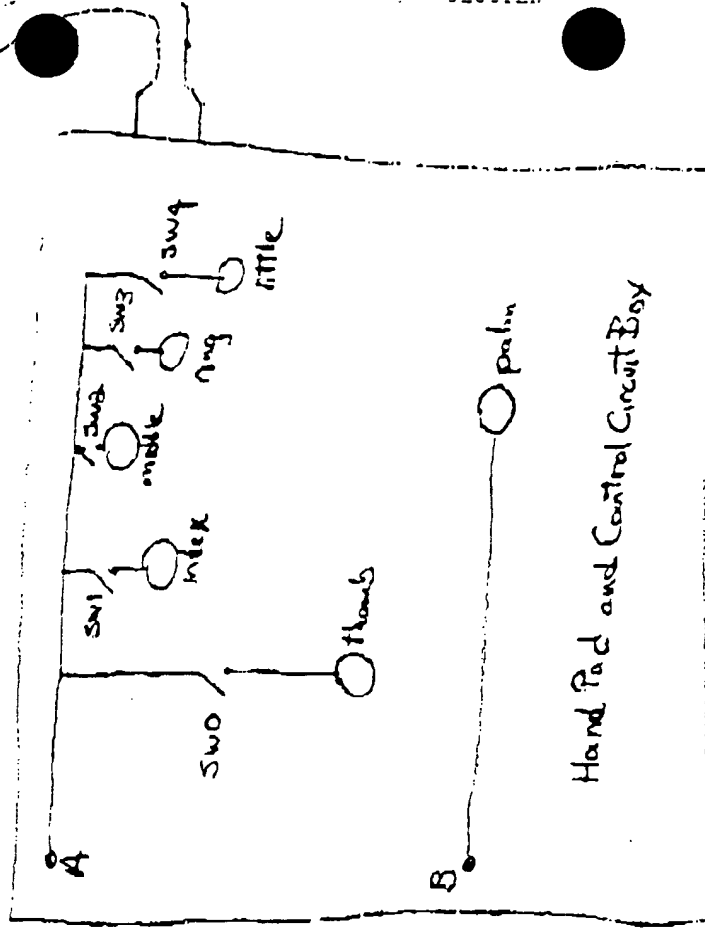
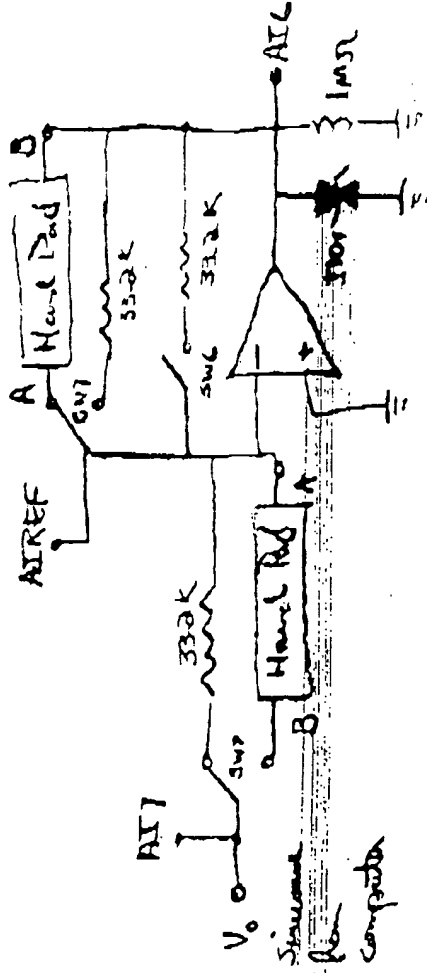
Compaq Armada 7800
Laptop w/
NI LabView Software

Armada Station
Docking Station

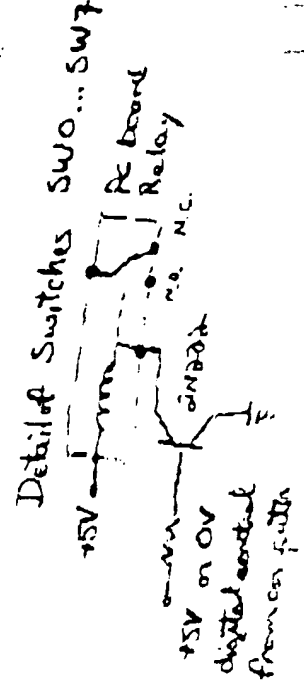
NI DAQ Board
Data Acquisition PCI Expansion
Board model PCI-MIO-16E-1

Connecting
Cable

Control Circuit



AI7 and AI6 are analog inputs, measured w.r.t. AIREF



F16 198

Dolch FieldPAC Portable Computer

National Instruments LabVIEW Runtime Engine Installed, Version 5.1

NI-DAQ Driver Software vers. 6.5.1 Installed

Biometric Recognition Executable Code

National Instruments
Data Acquisition Expansion Board
NI-DAQ model PCI-MIO-16E-1

Analog Output - AO (2 channels)

Analog Input - AI (16 channels)

Digital Output - DO (8 channels)

+5V, 1A power

Signal Ground Reference - SG

Shielded
Cable

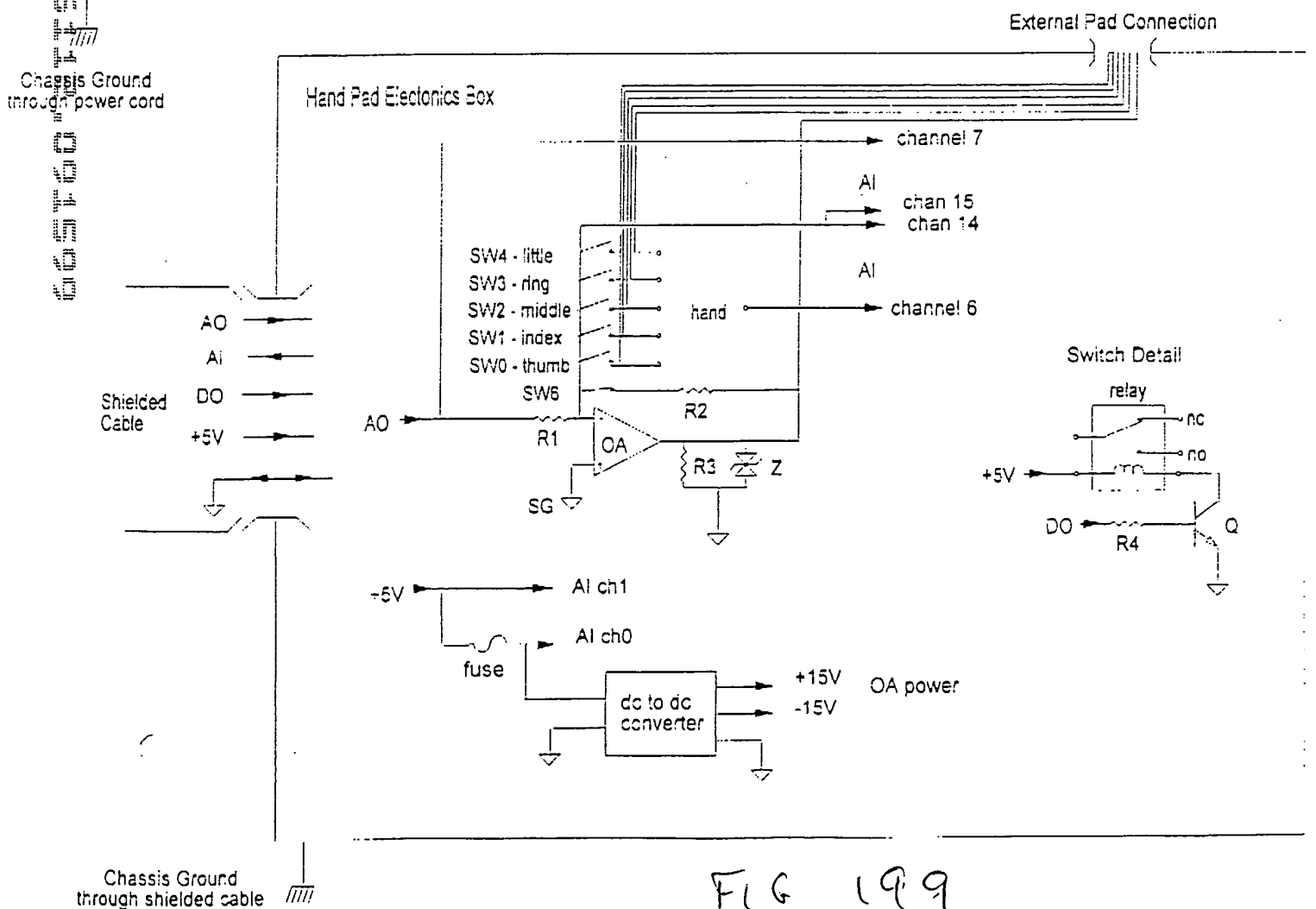


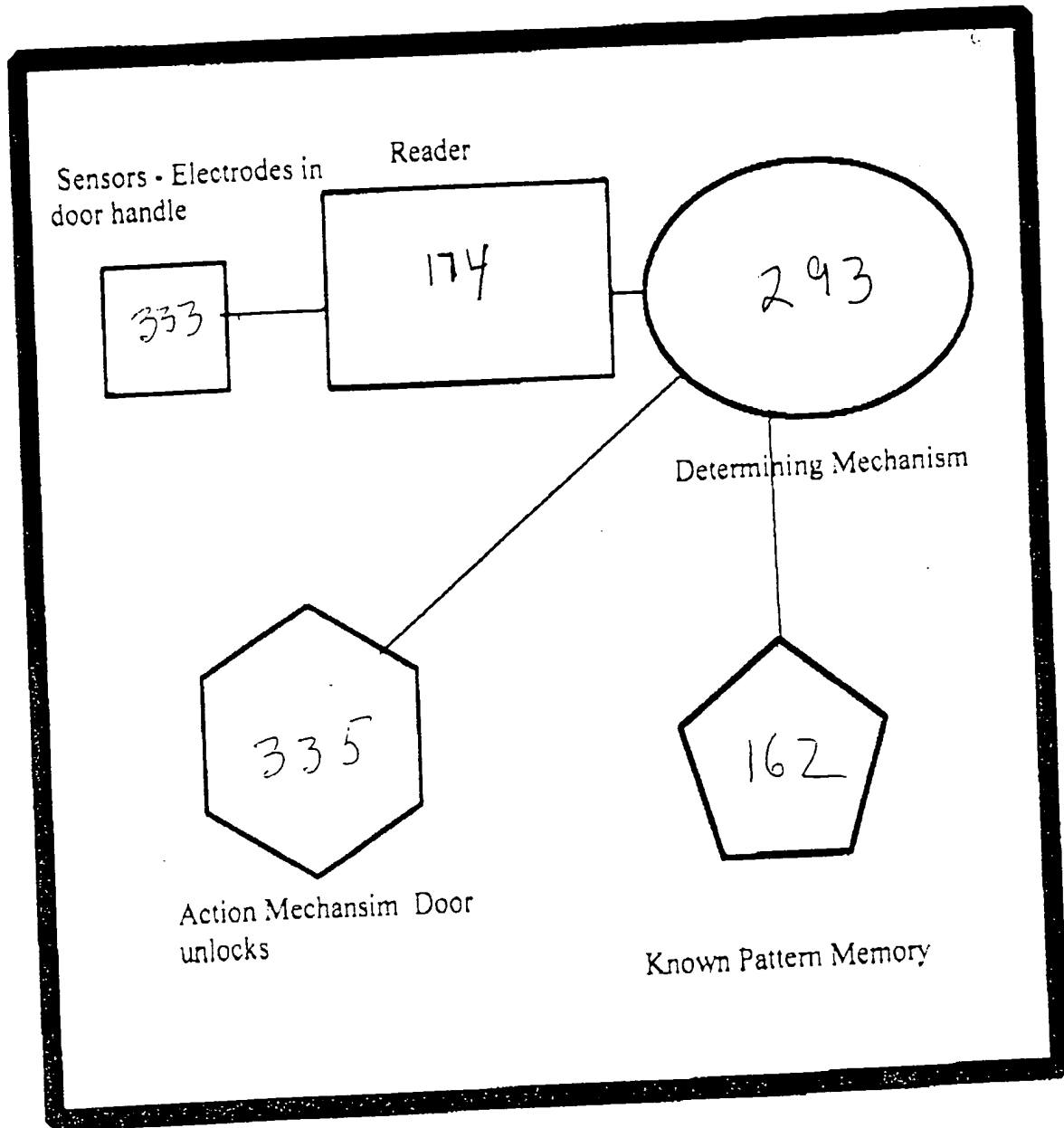
FIG 199

MECHANISM FOR RECOGNIZING
A BIOMETRIC SIGNATURE OF
AN INDIVIDUAL FROM ENERGY
EMITTED BY THE INDIVIDUAL

ALLOWING AN
ACTION MECHANISM

FIG 200.

- Discrete Biometric Lock



Biometric Door Handle

FIG 201

Composite Biometric Lock

Sensors - Electrodes in
door handle

Reader

333

174

293

Determining Mechanism

162

397

Known Pattern Memory

Numerical Keypad

335

Action Mechanism Door
unlocks

FIG 202

Multiple Biometric Lock

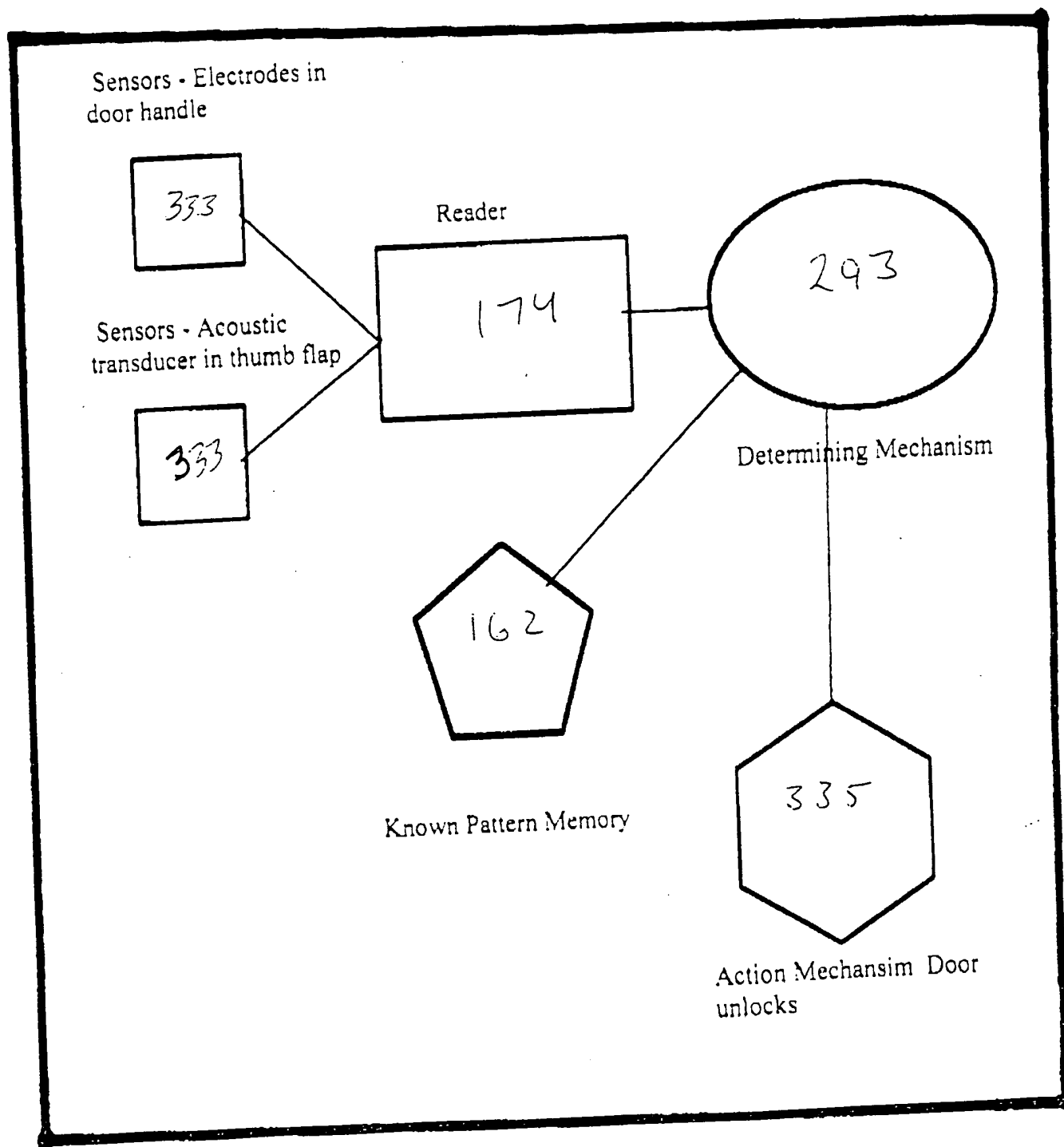
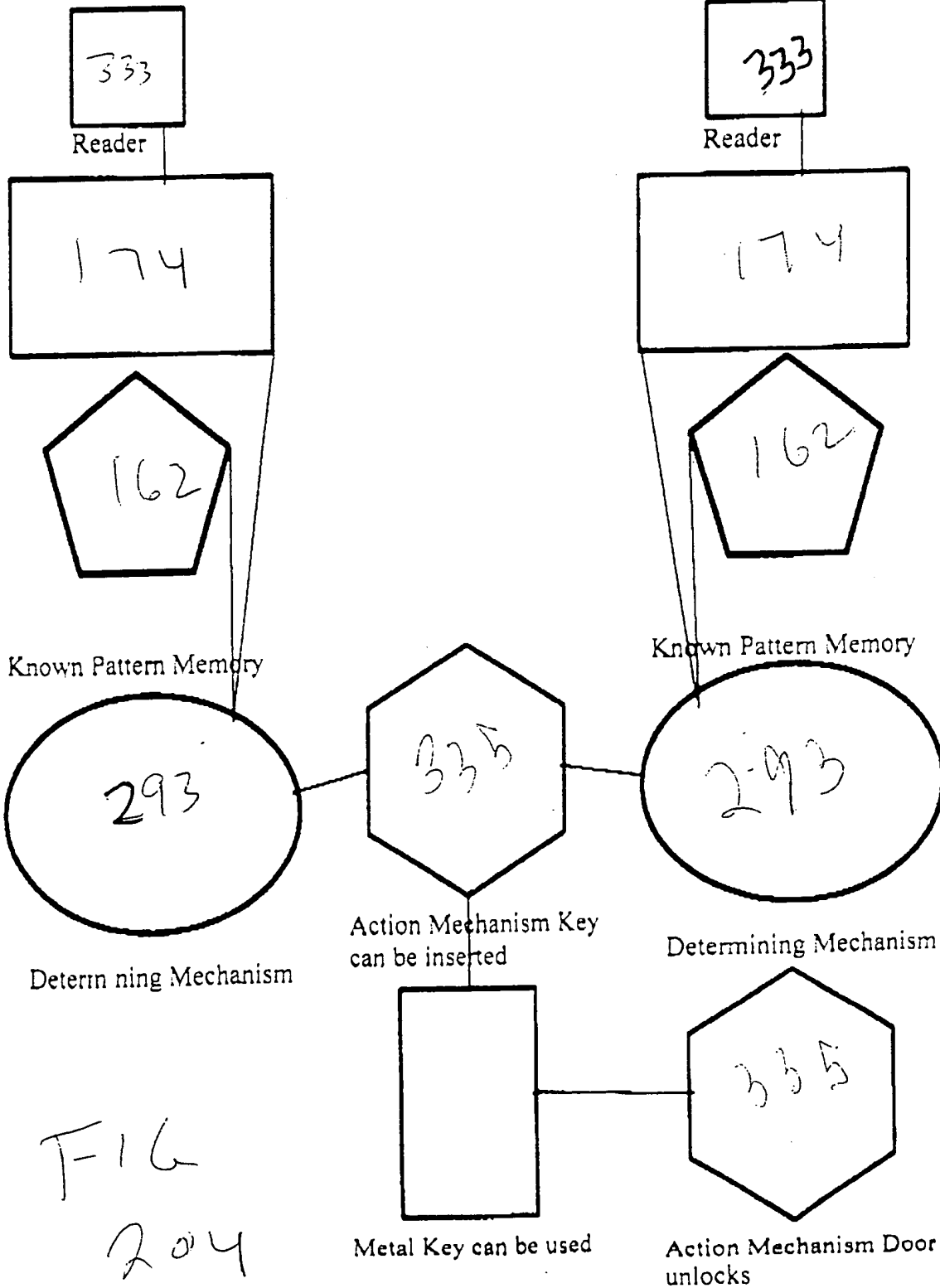


FIG 203

Composite Multiple Biometric Lock

Sensors - Electrodes in
door handle

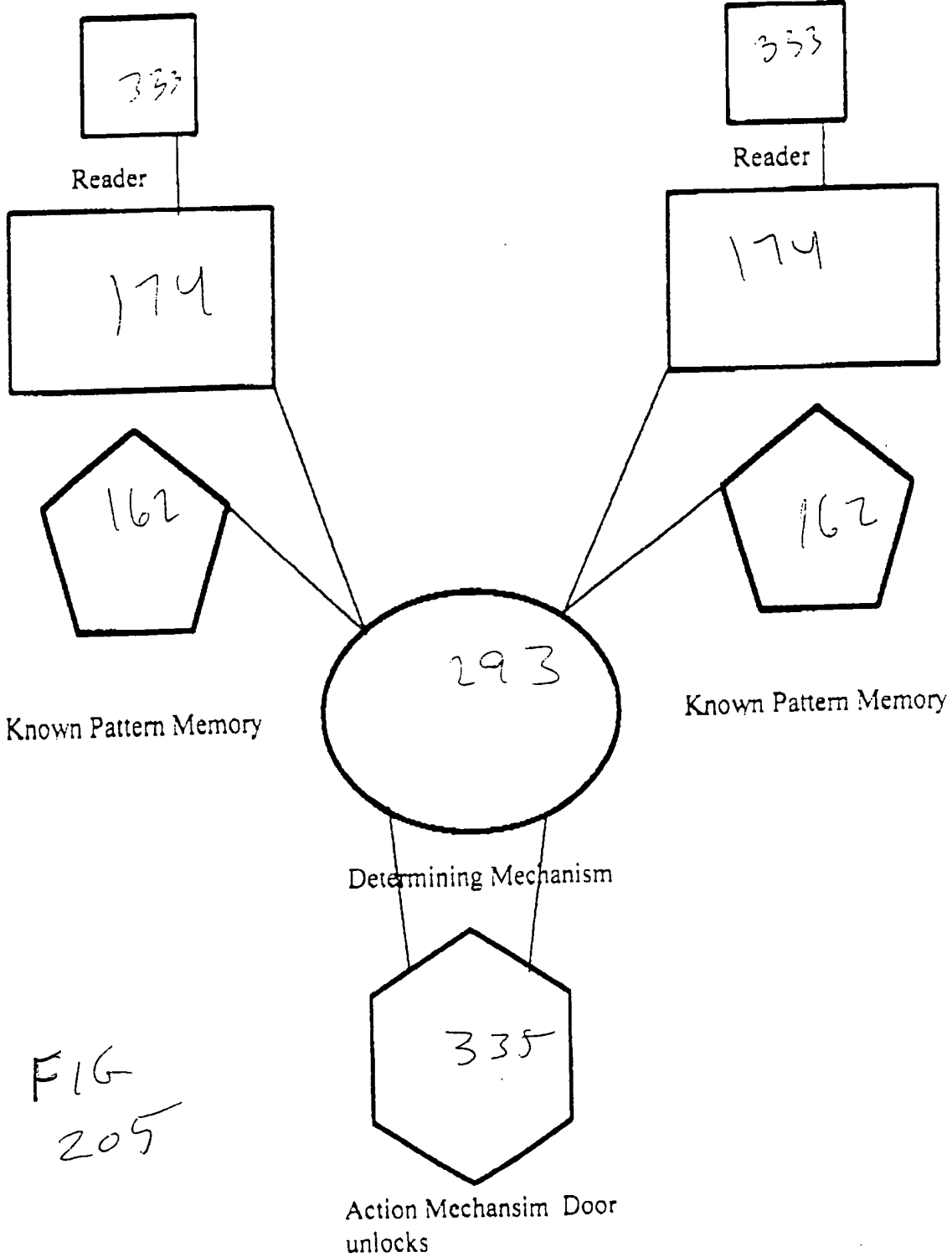
Sensors - Acoustic
transducer in thumb flap



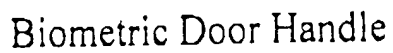
- Optional Multiple Biometric Lock

Sensors - Electrodes in
door handle

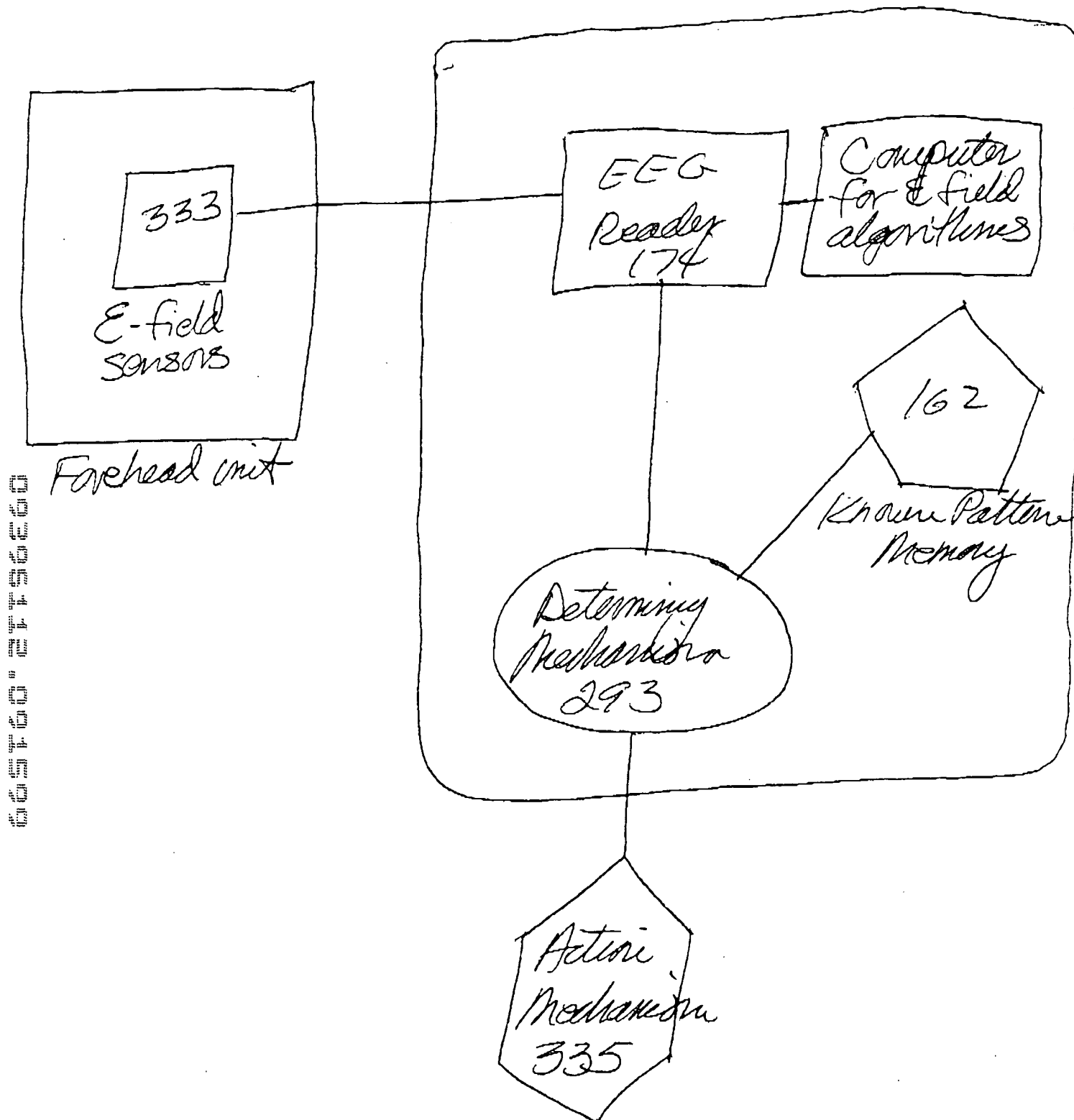
Sensors - Acoustic
transducer in thumb flap



$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$



Flu 206



Recognizing a biometric signature from
energy emitted by an individual

FIG 207

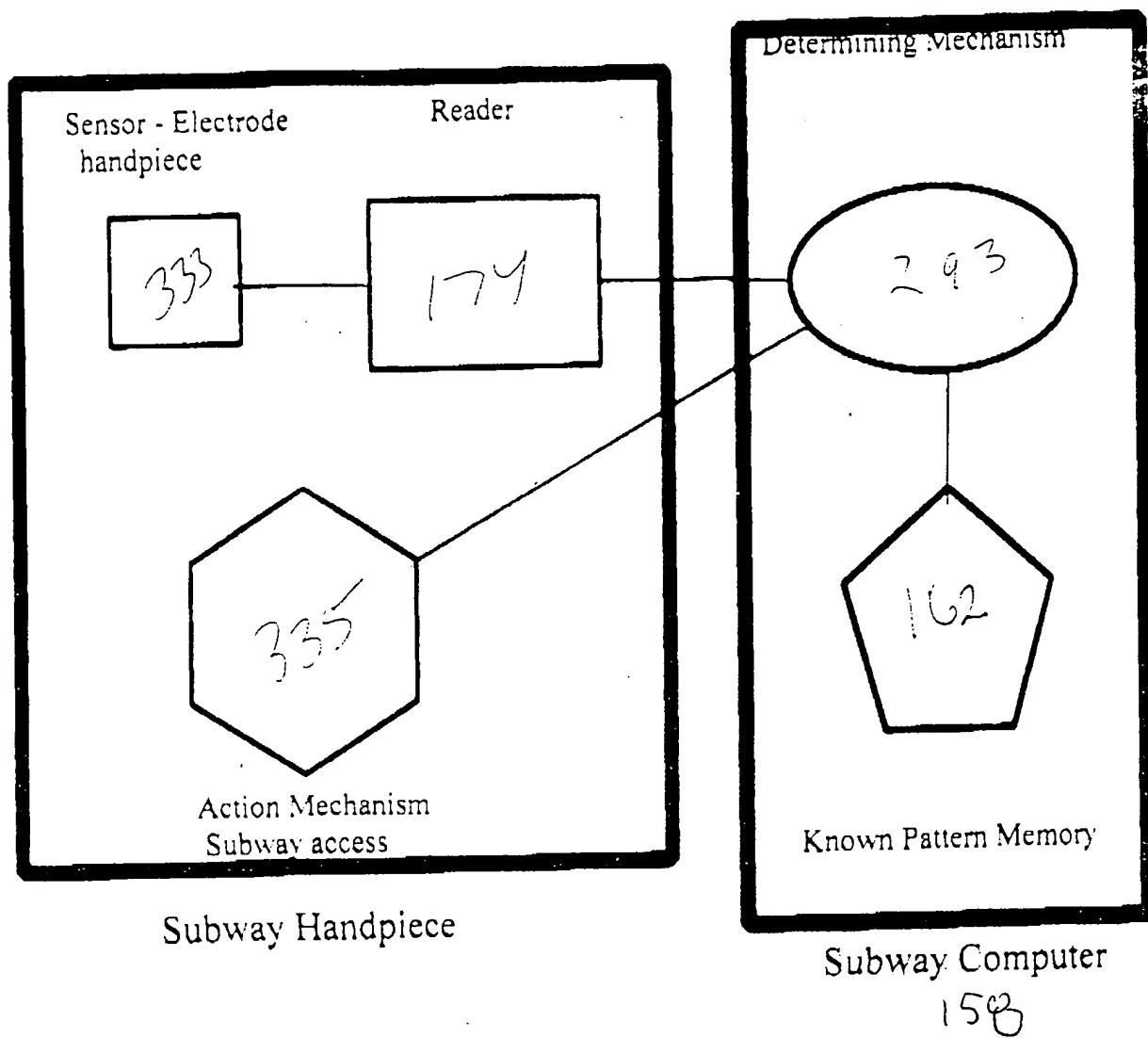


FIG 127

Windshield Unit

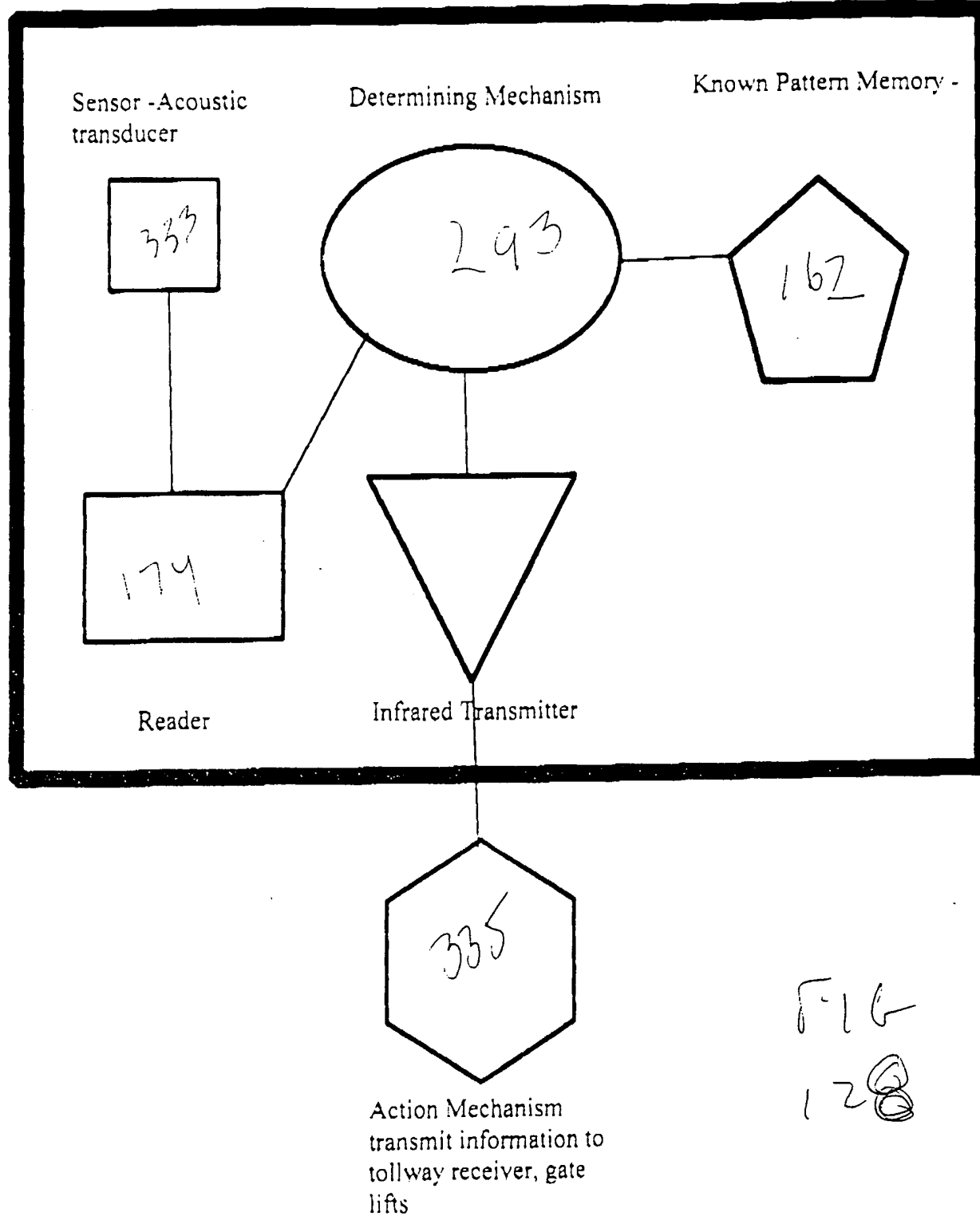
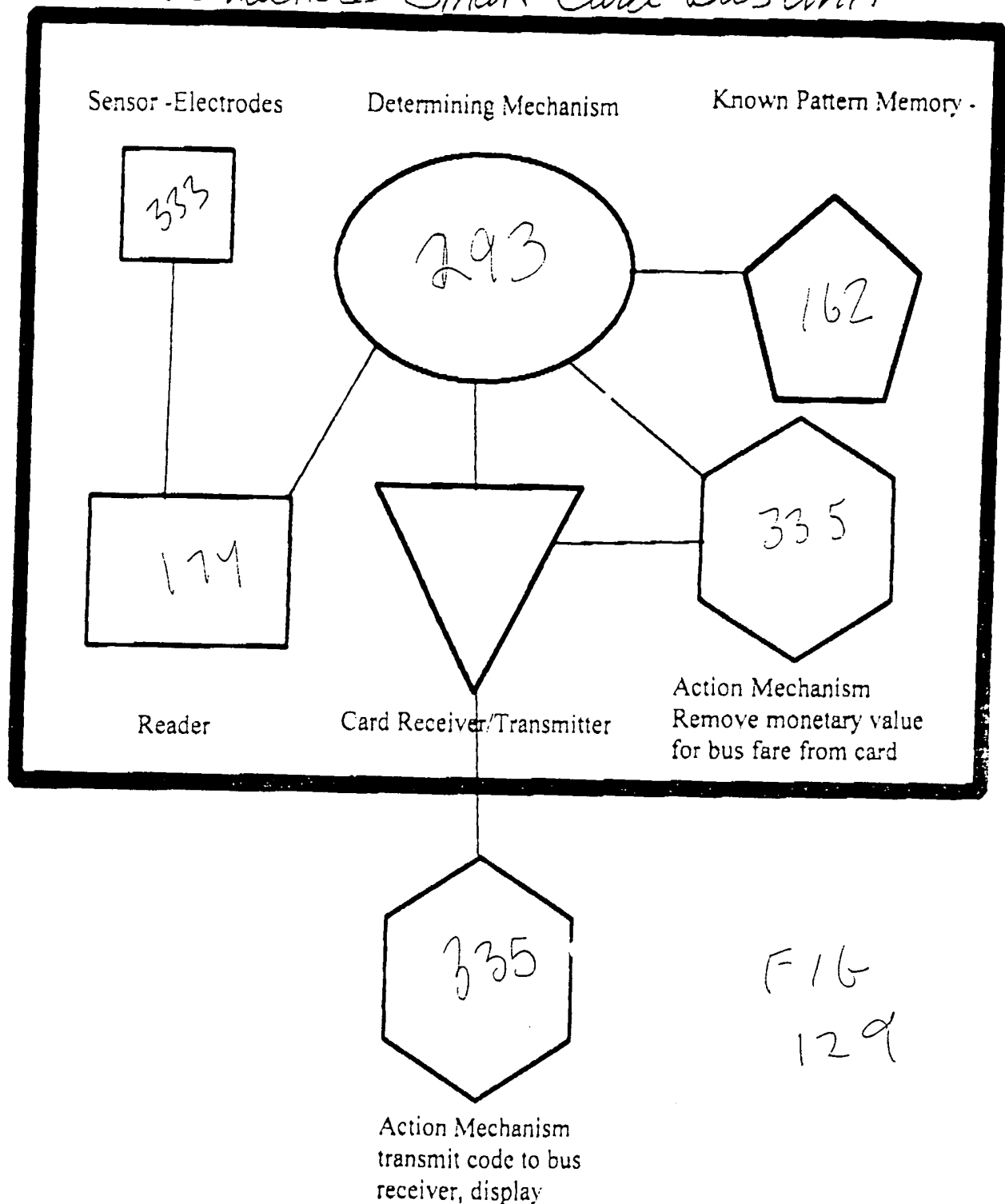
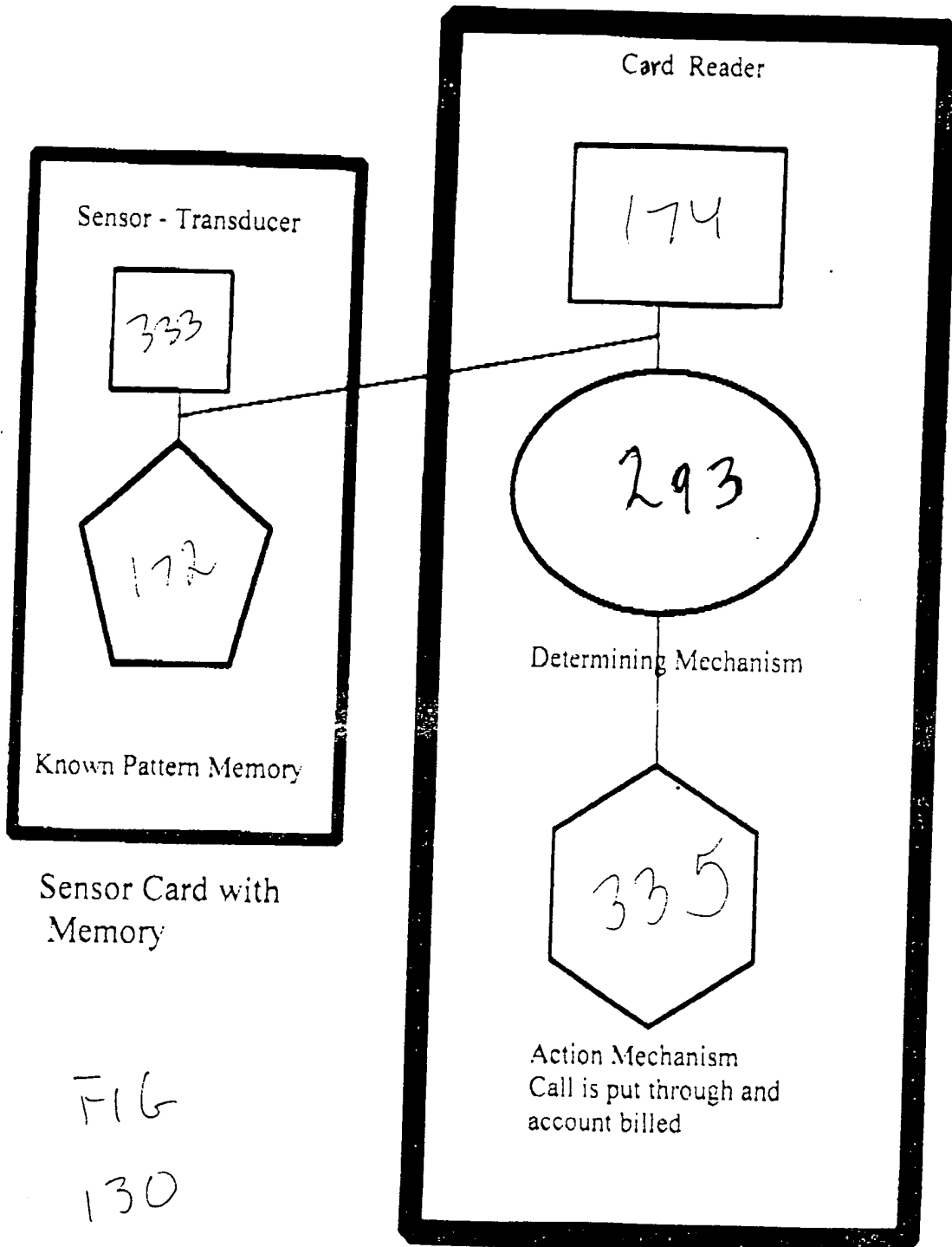


Fig
128

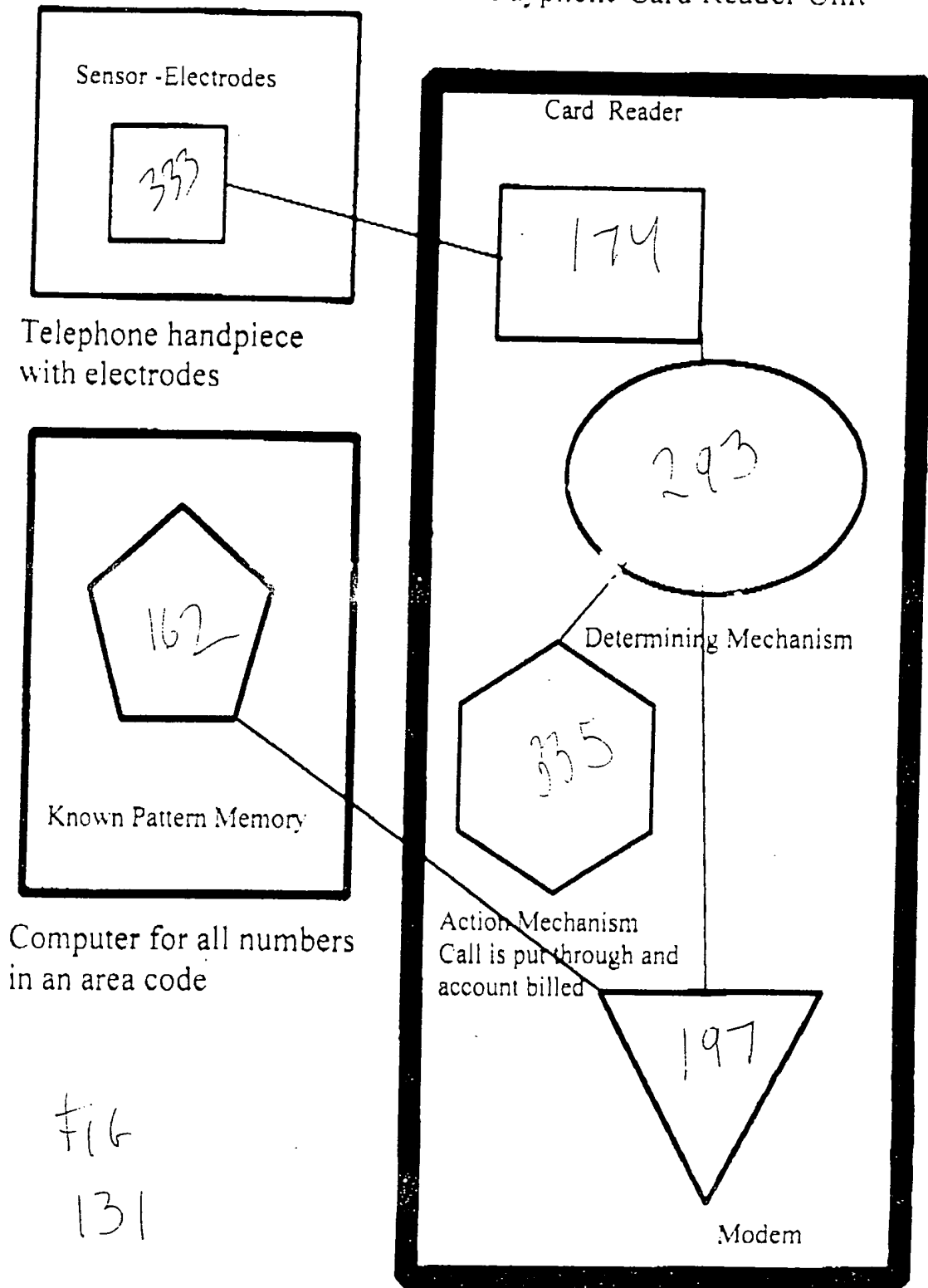
Contactless Smart Card Bus Unit



Payphone Card Reader Unit



Payphone Card Reader Unit



Fig

131

Electrode Telephone Handpiece

Side View

FIG
131a

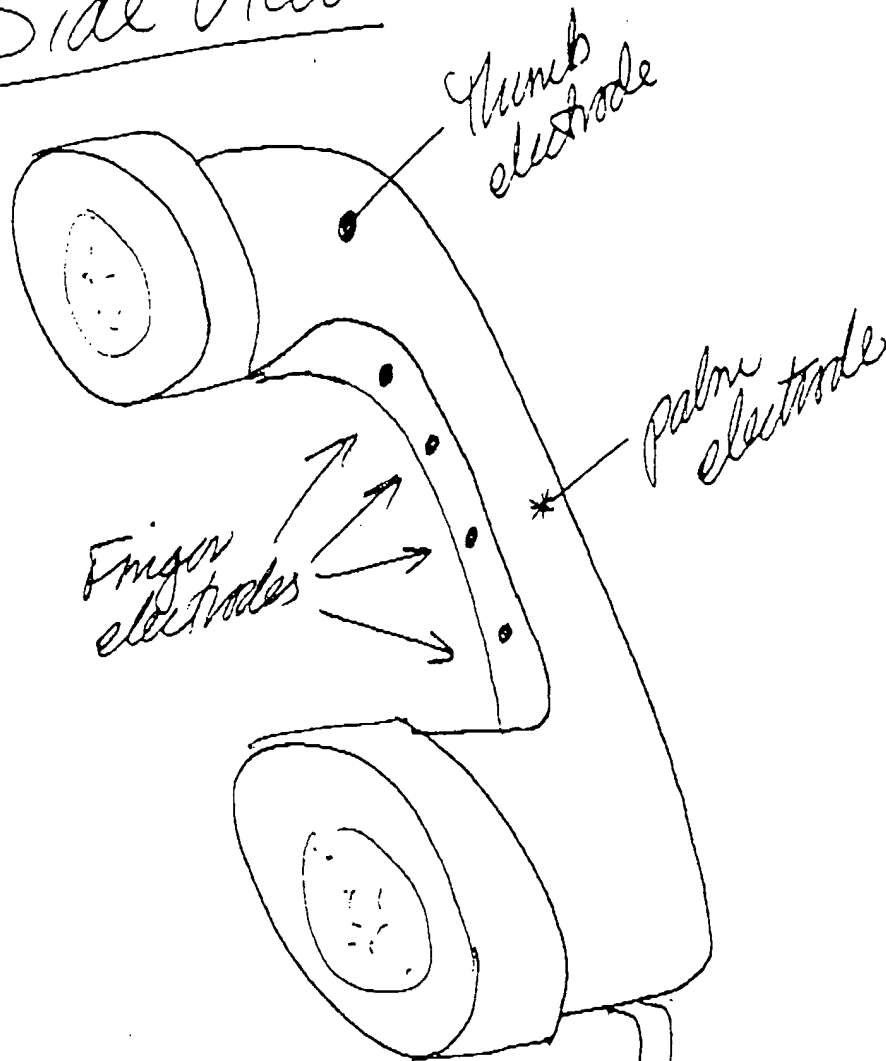
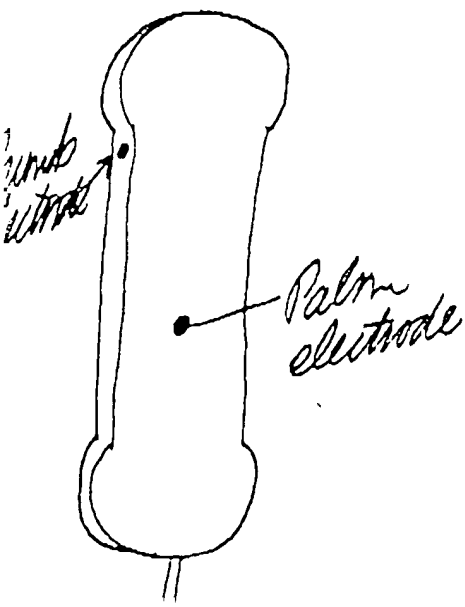


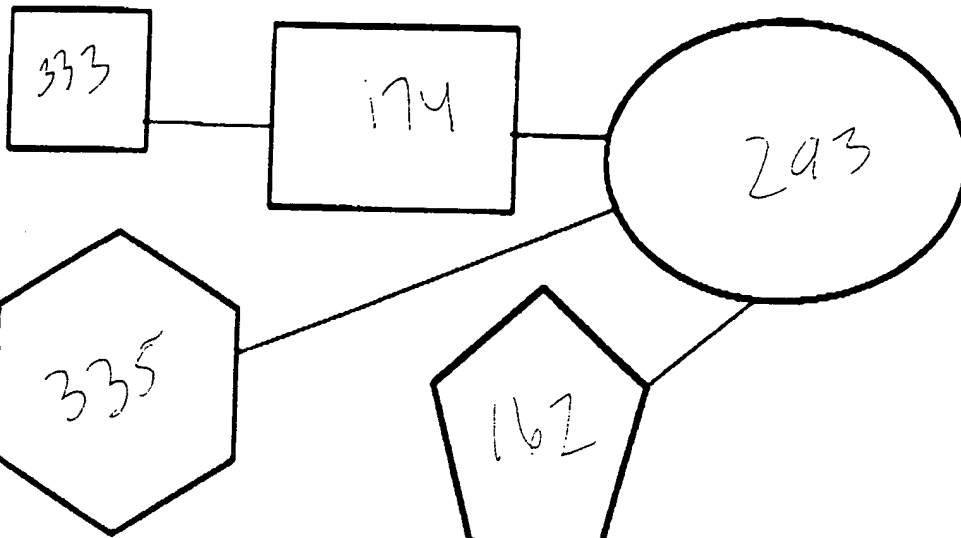
FIG
131b



Sensor - Touchless
microwave scanner

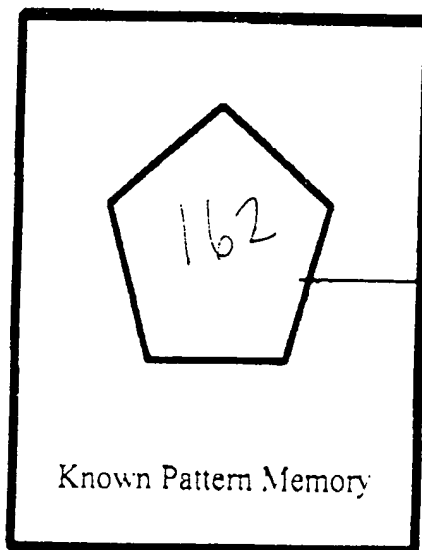
Microwave Reader

Determining Mechanism



Action Mechanism
Call is put through and
account billed

Known Pattern Memory



Computer with master list
of authorized biometric
patterns

Modem

F-16 132

Touchless Payphone

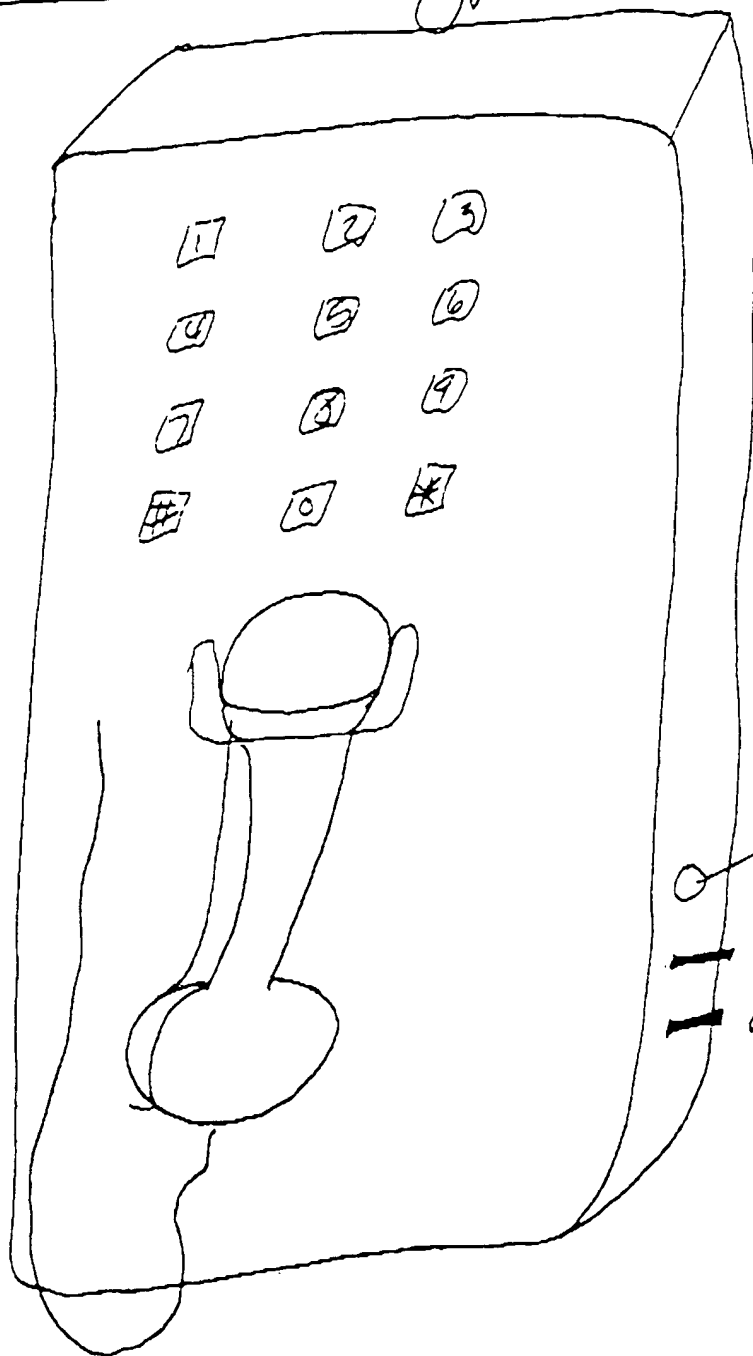
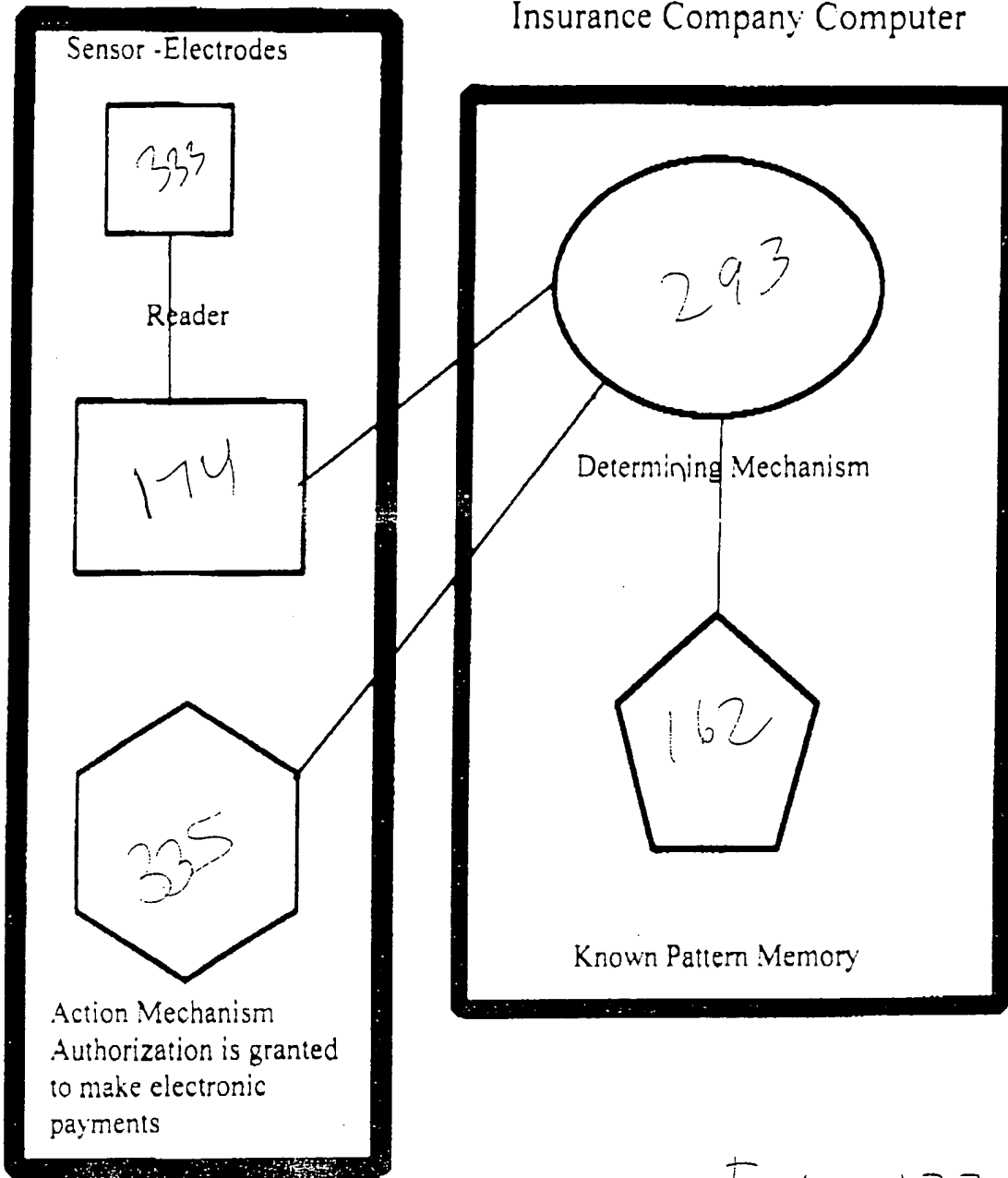


FIG
132a

09305412 004500

Insurance Company Computer



Electrode handpiece
with display

FIG 133

Emergency Room Reader
Unit

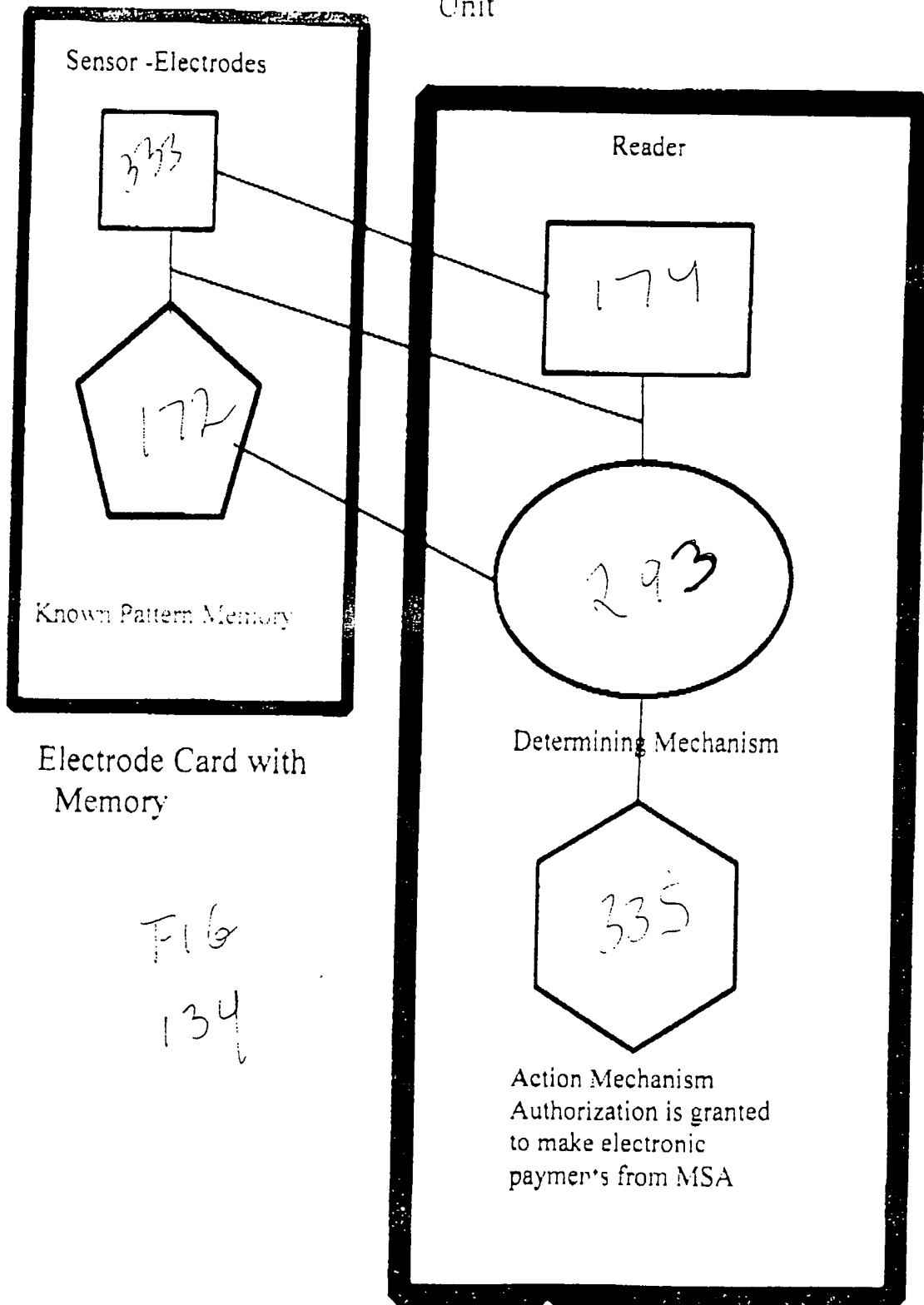
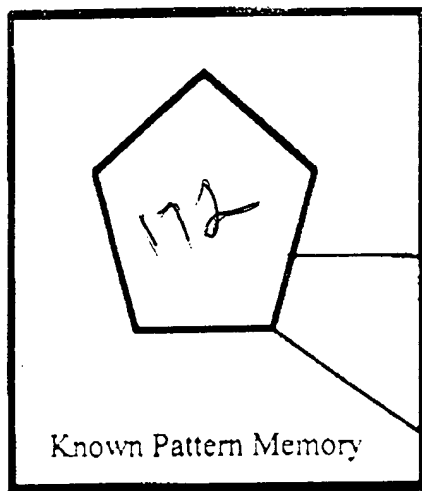
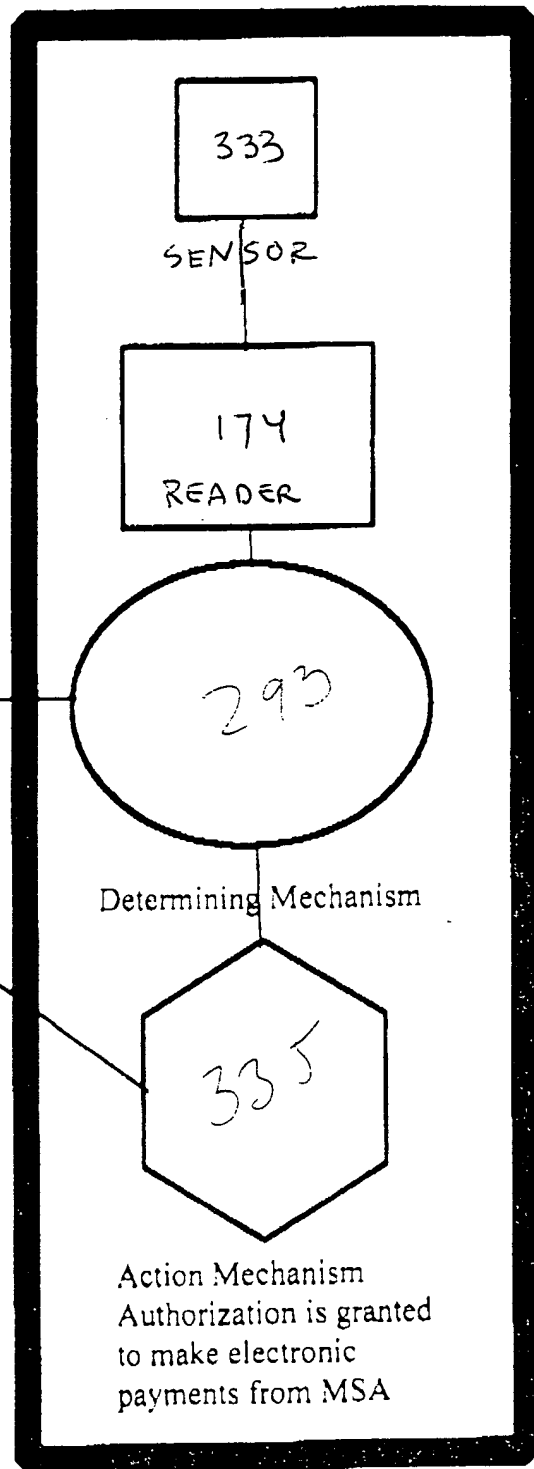


Fig
134



MSA Smart Card with
Memory

FIG
135



SMART CARD

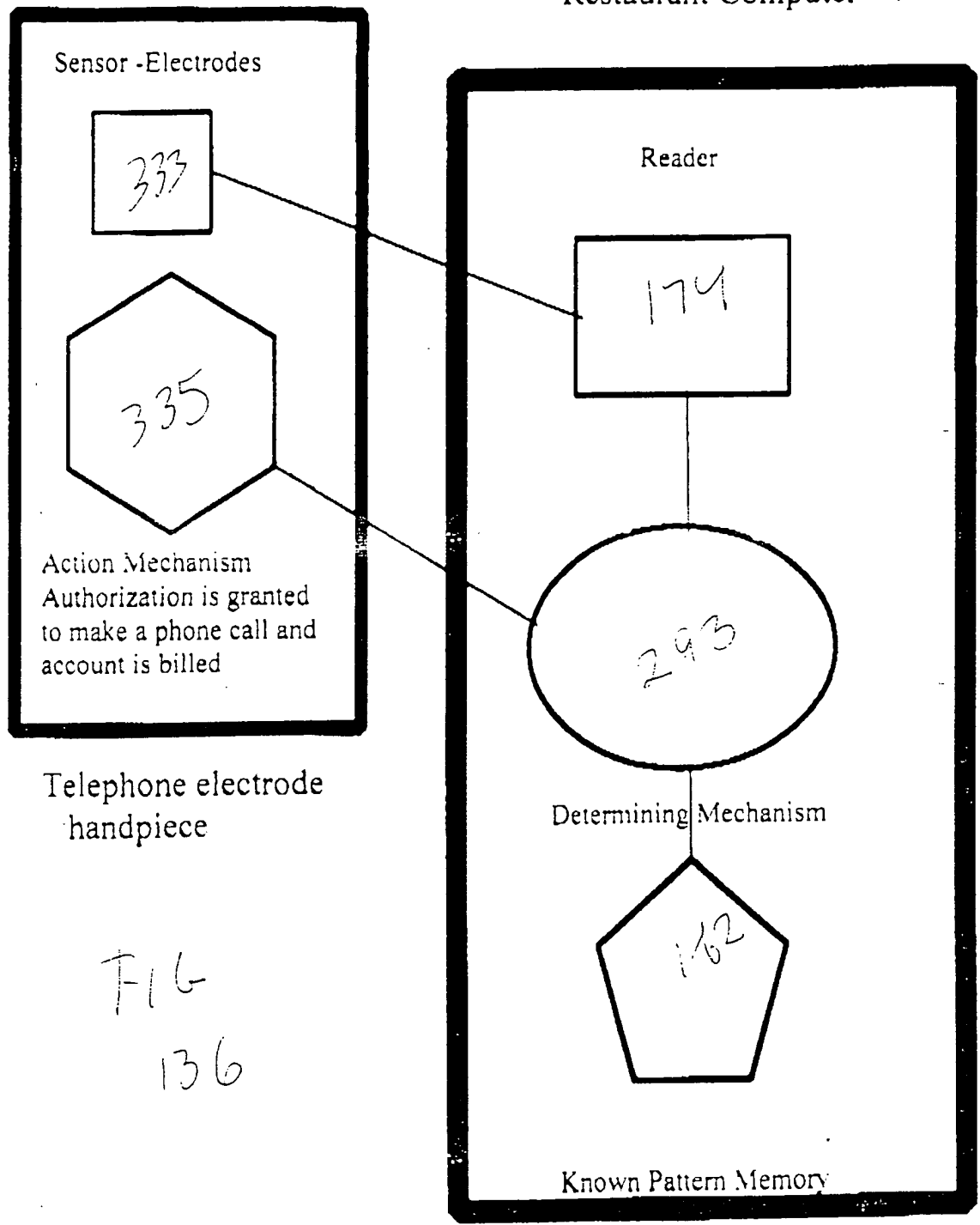
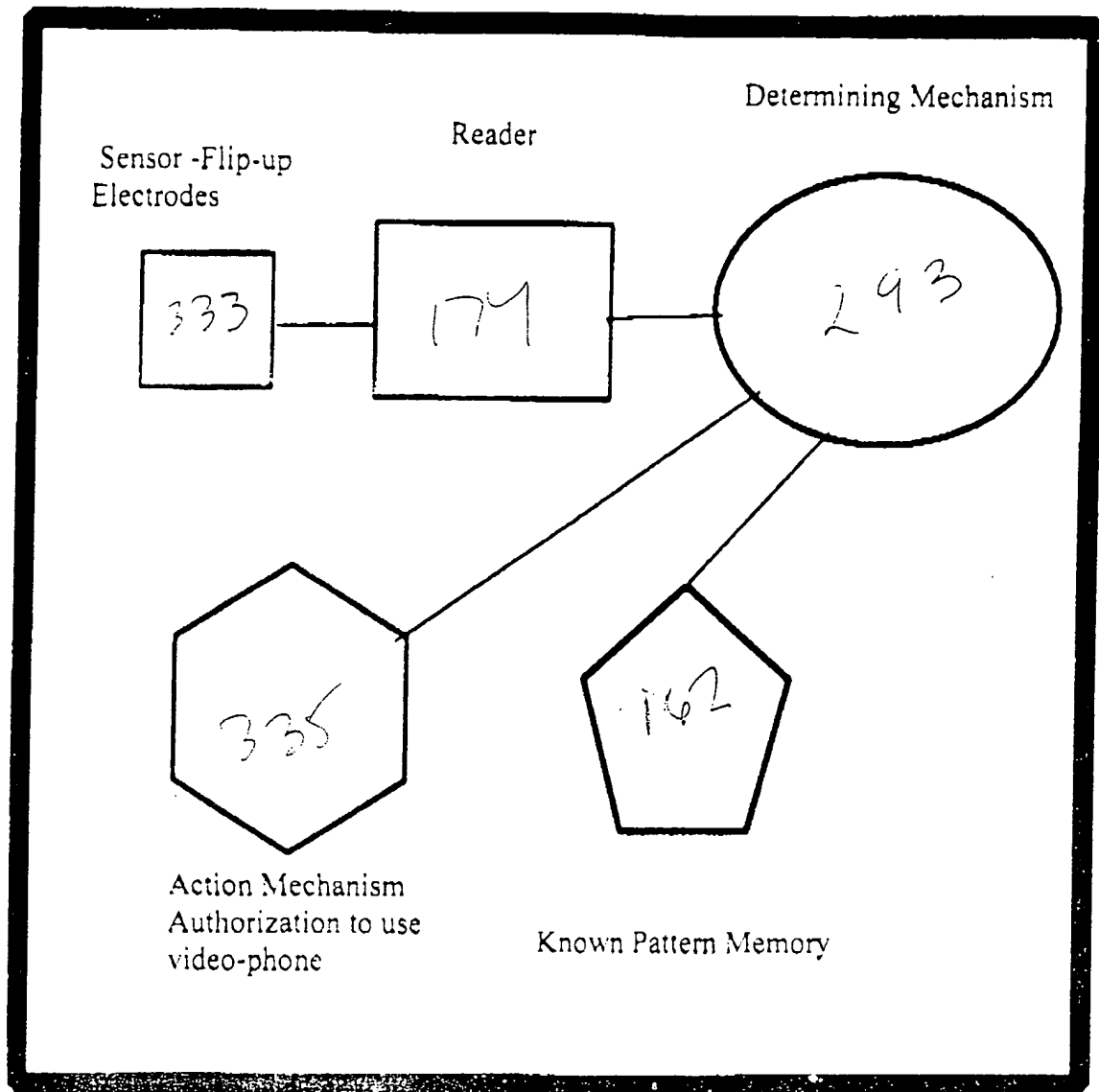


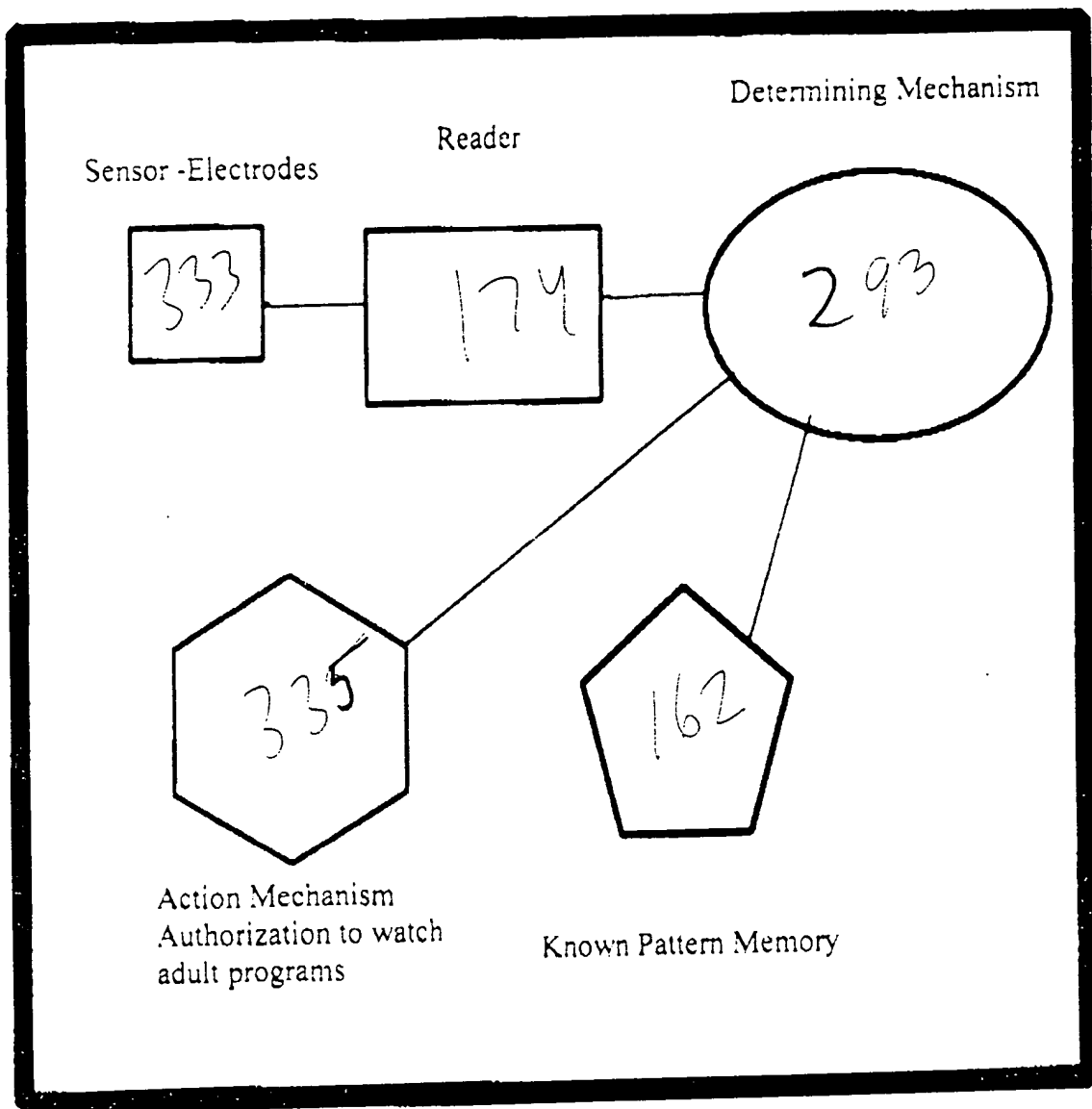
FIG
136

Portable Video-phone



F16 137

Television Handpiece Unit



F16 138

Biometric Lock on Electronics

Fig 138a

Television

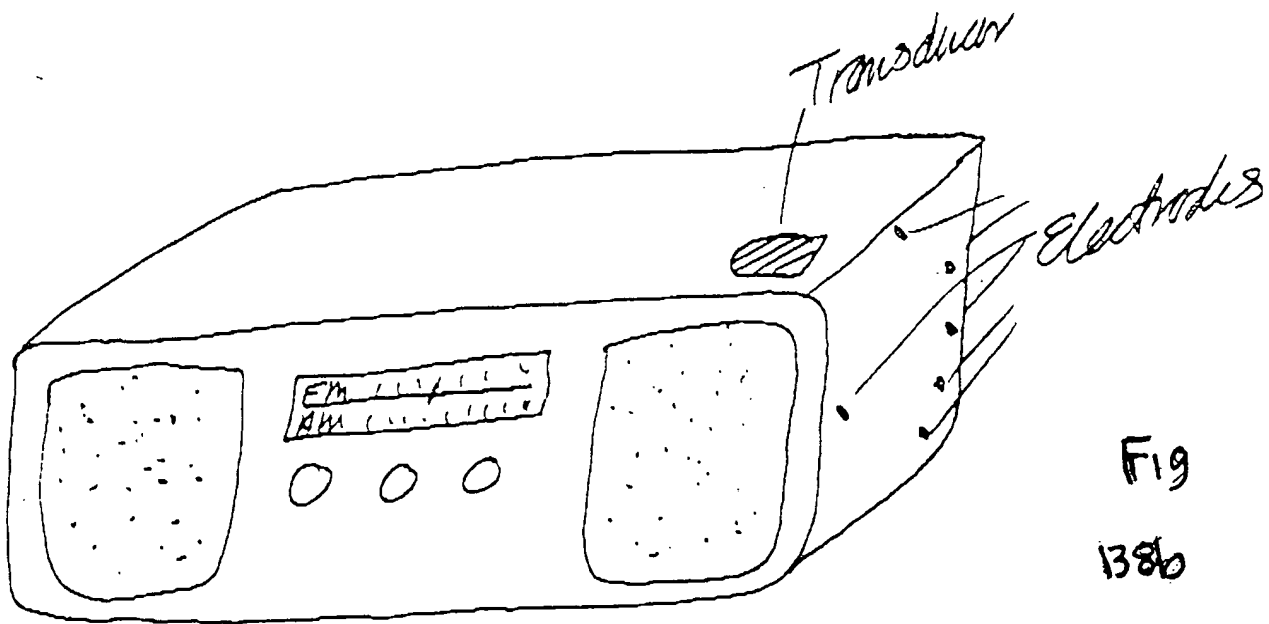
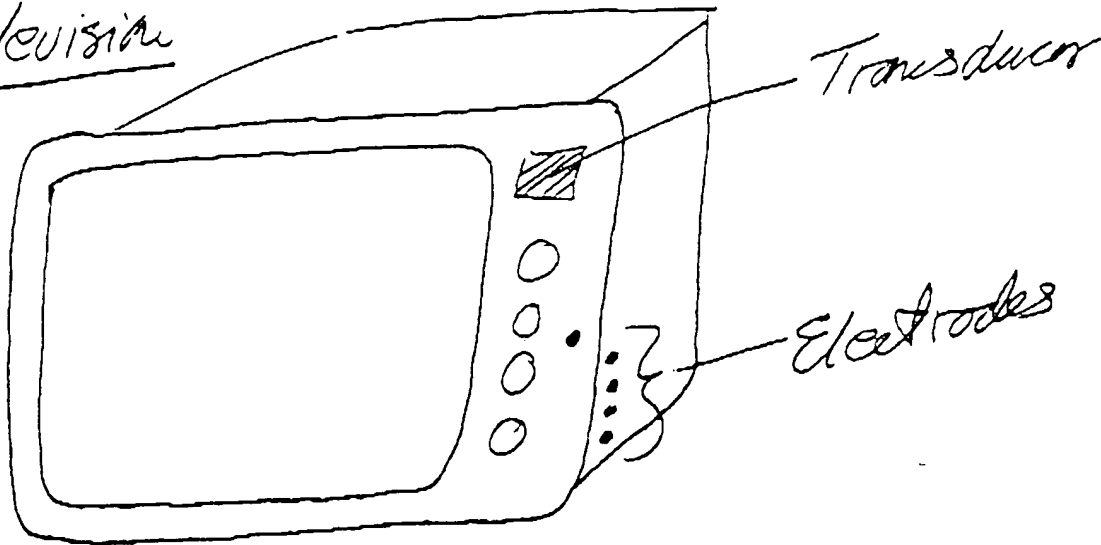


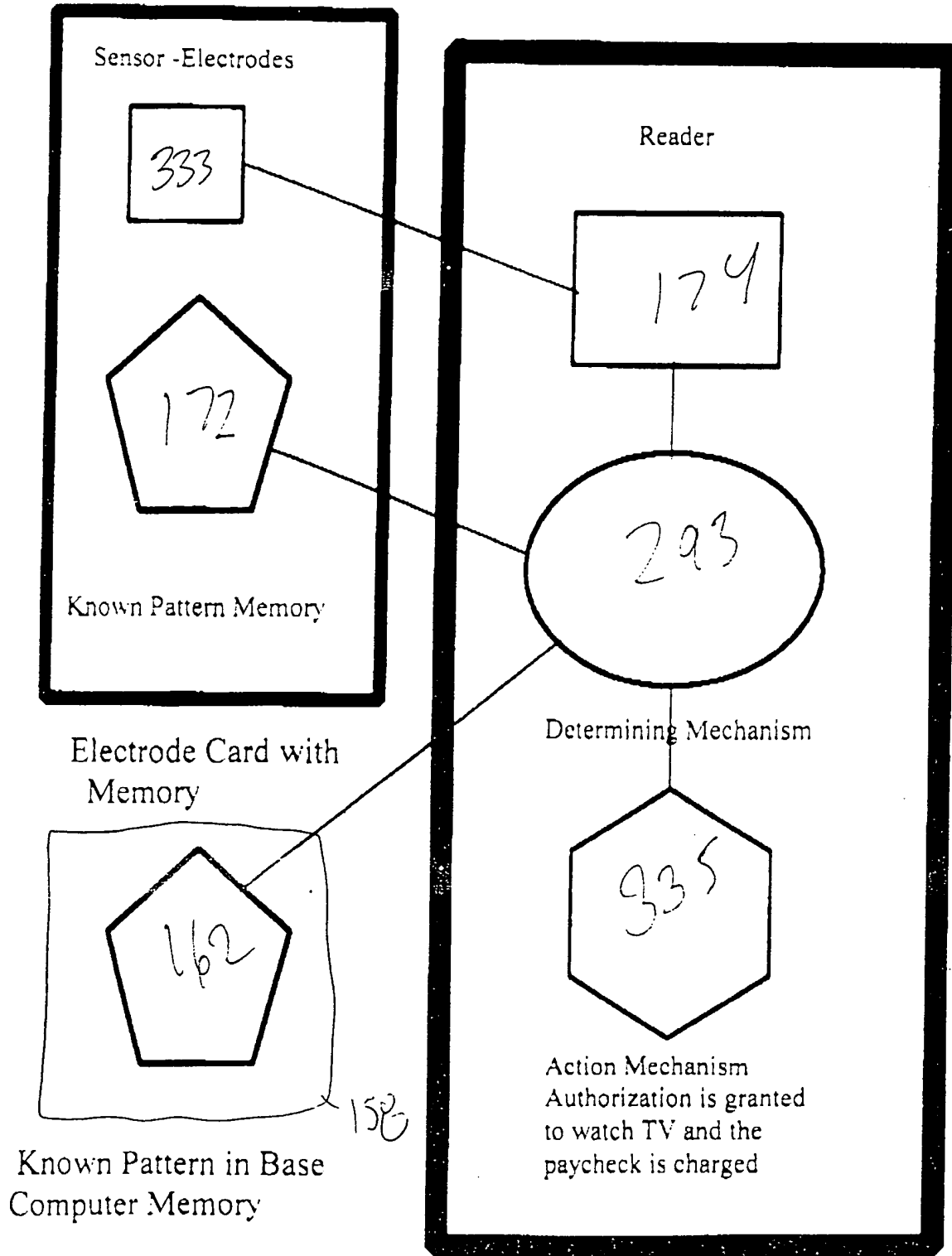
Fig 138b

Radio

Pay TV Reader Unit

F-16

139



Pay TV Reader Unit

FIG
140

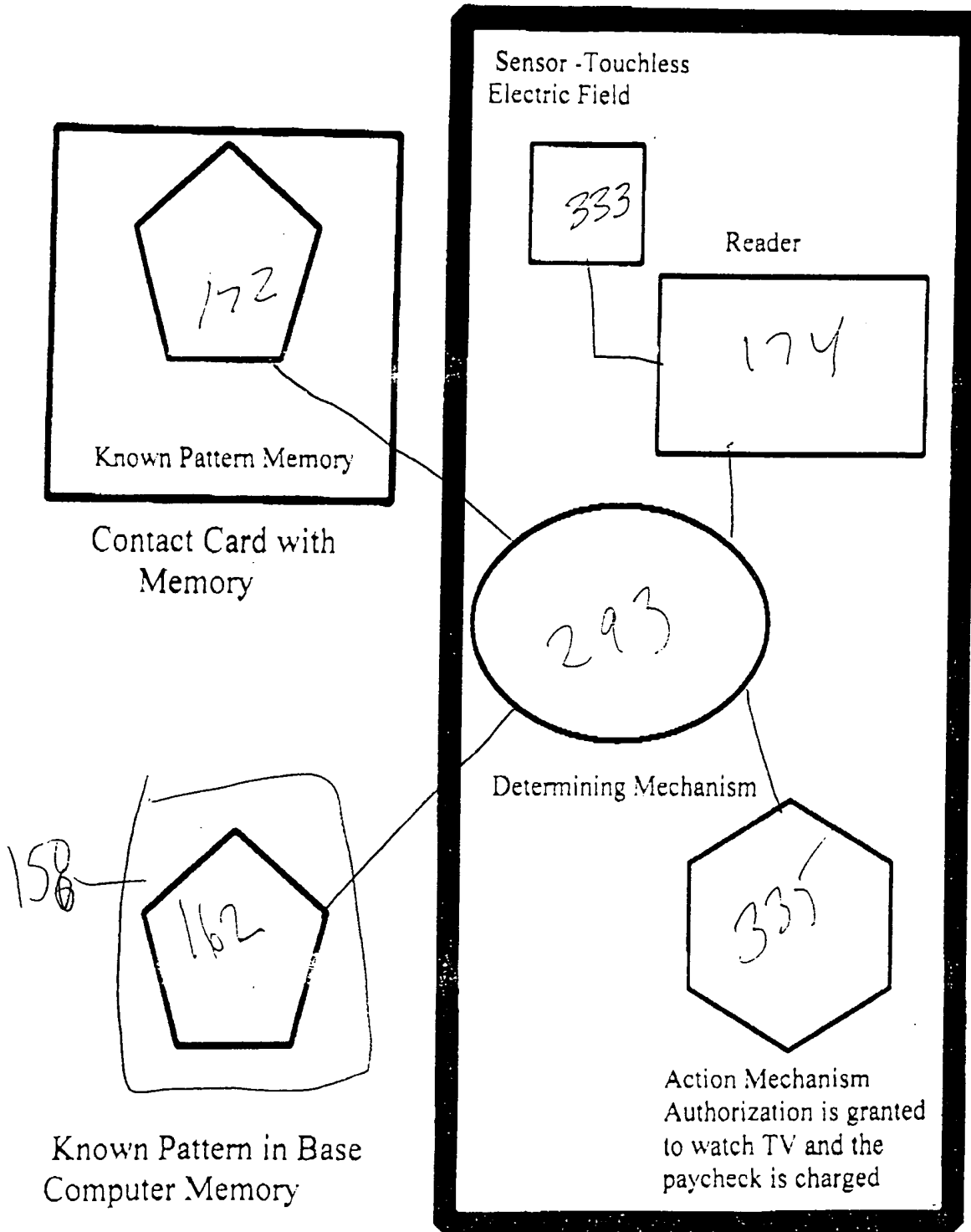
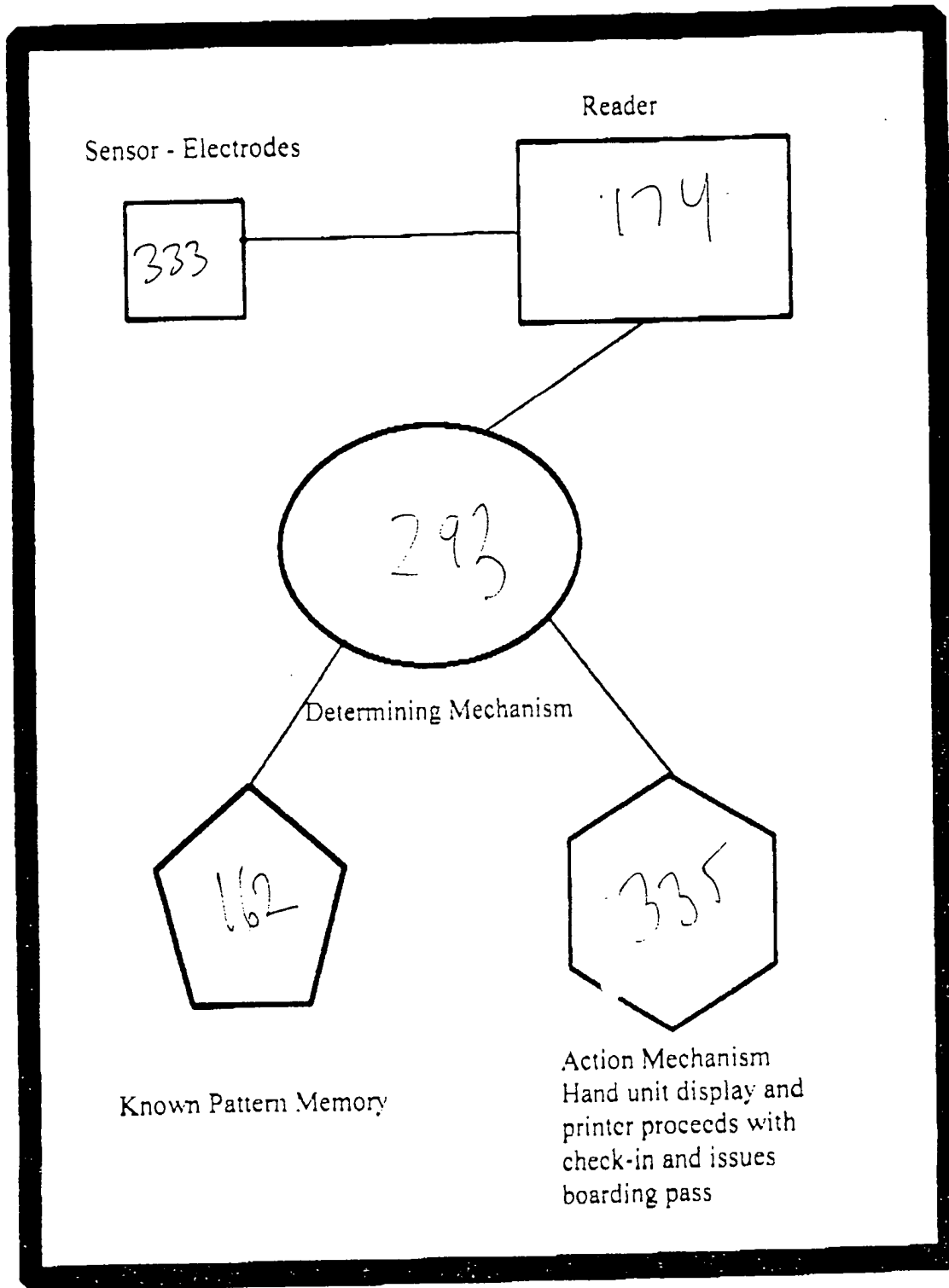


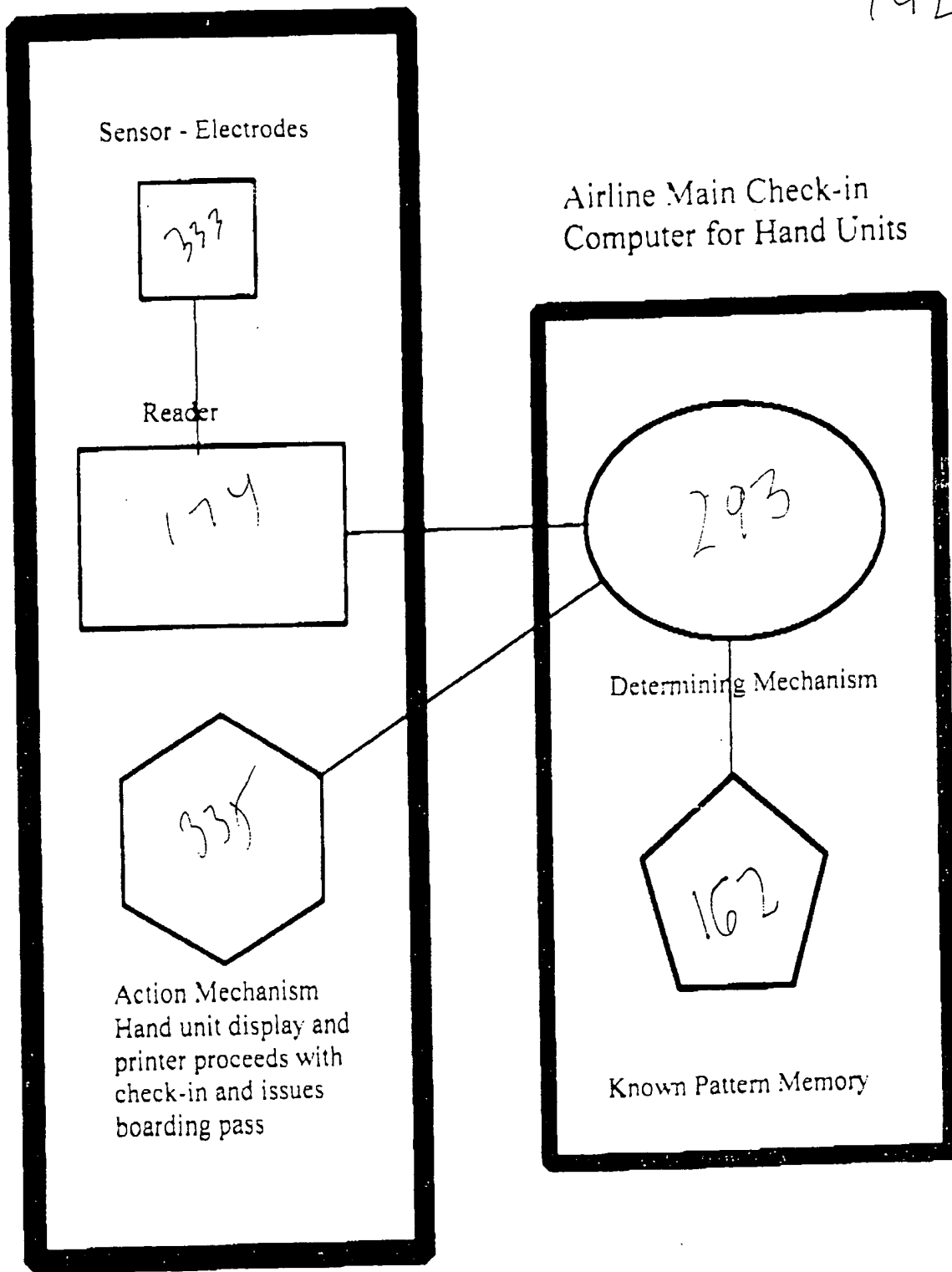
FIG 141

Airline Check-in Hand Unit



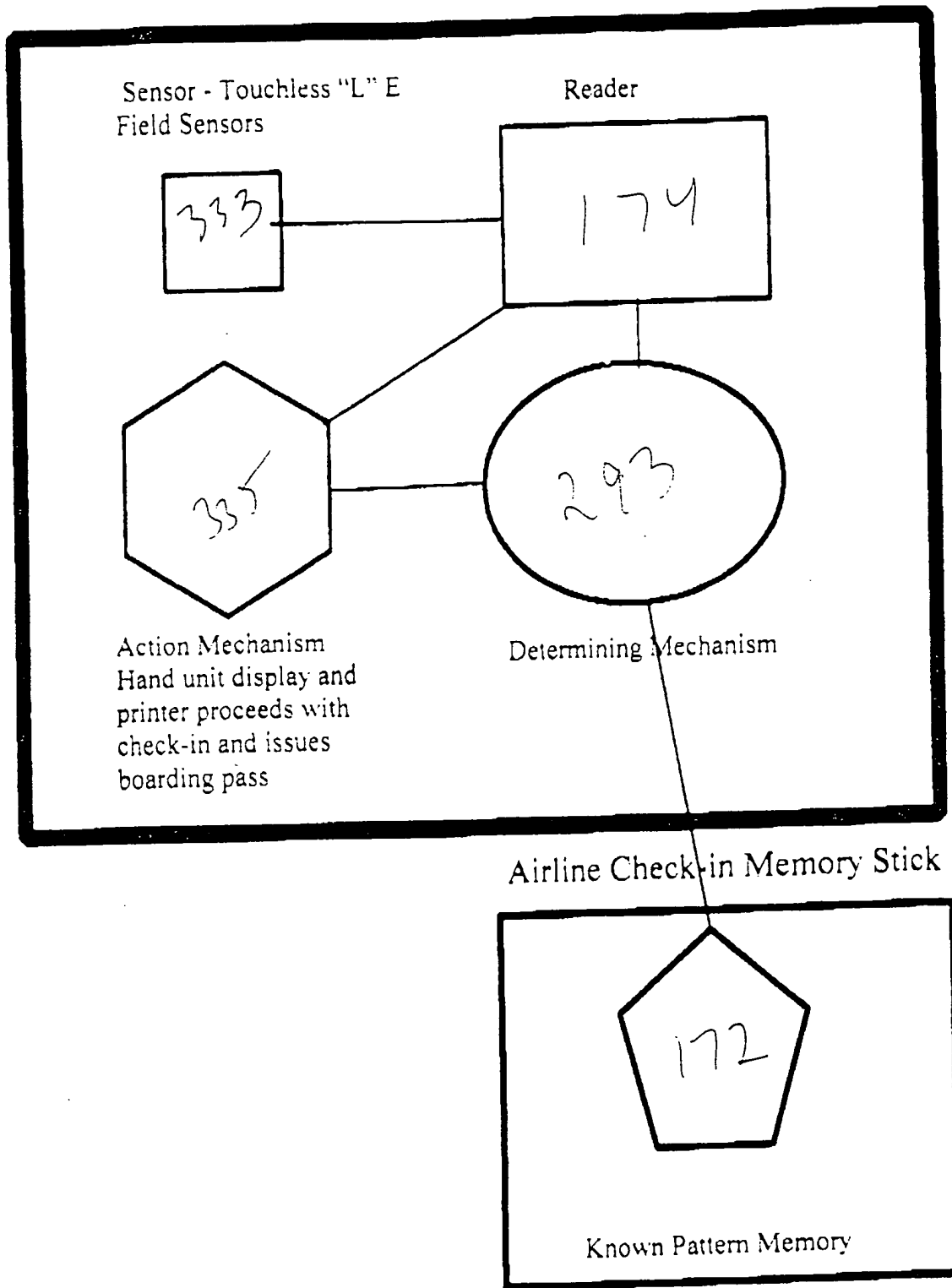
Airline Check-in Hand Unit

F-16
142



Airline Check-in Hand Unit

FIG
143



Airline Check-in Hand Unit

FIG
144

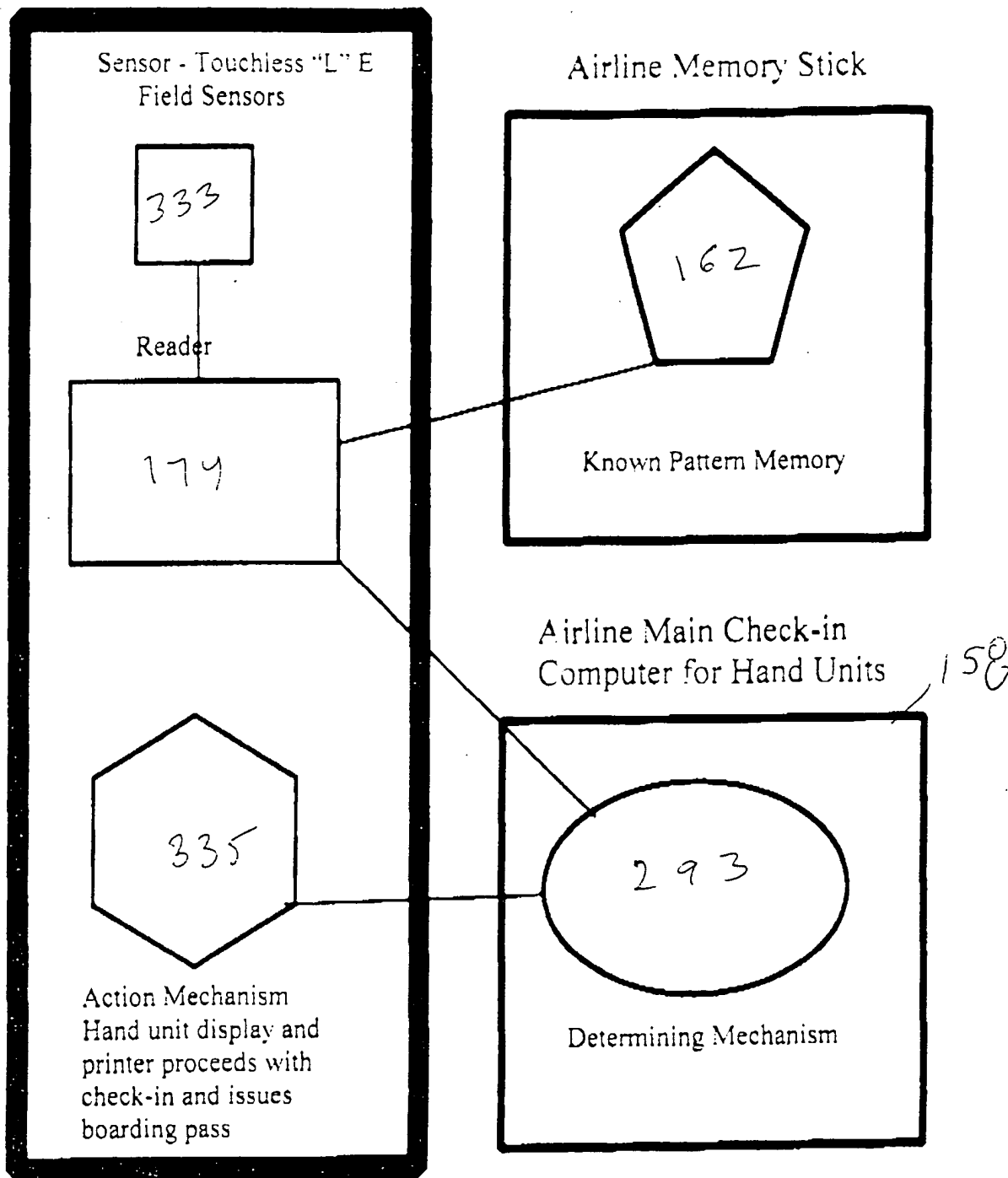
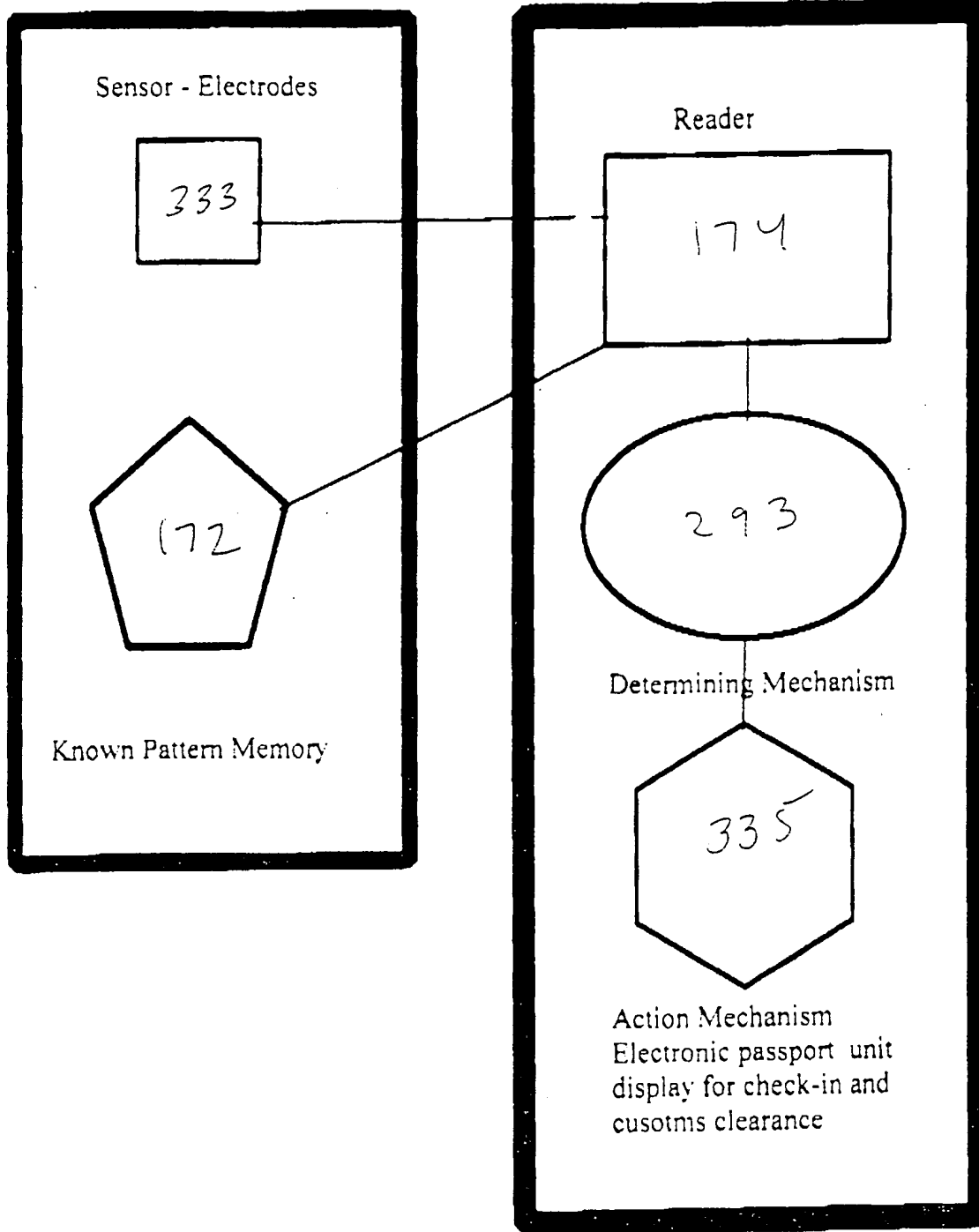


FIG
145

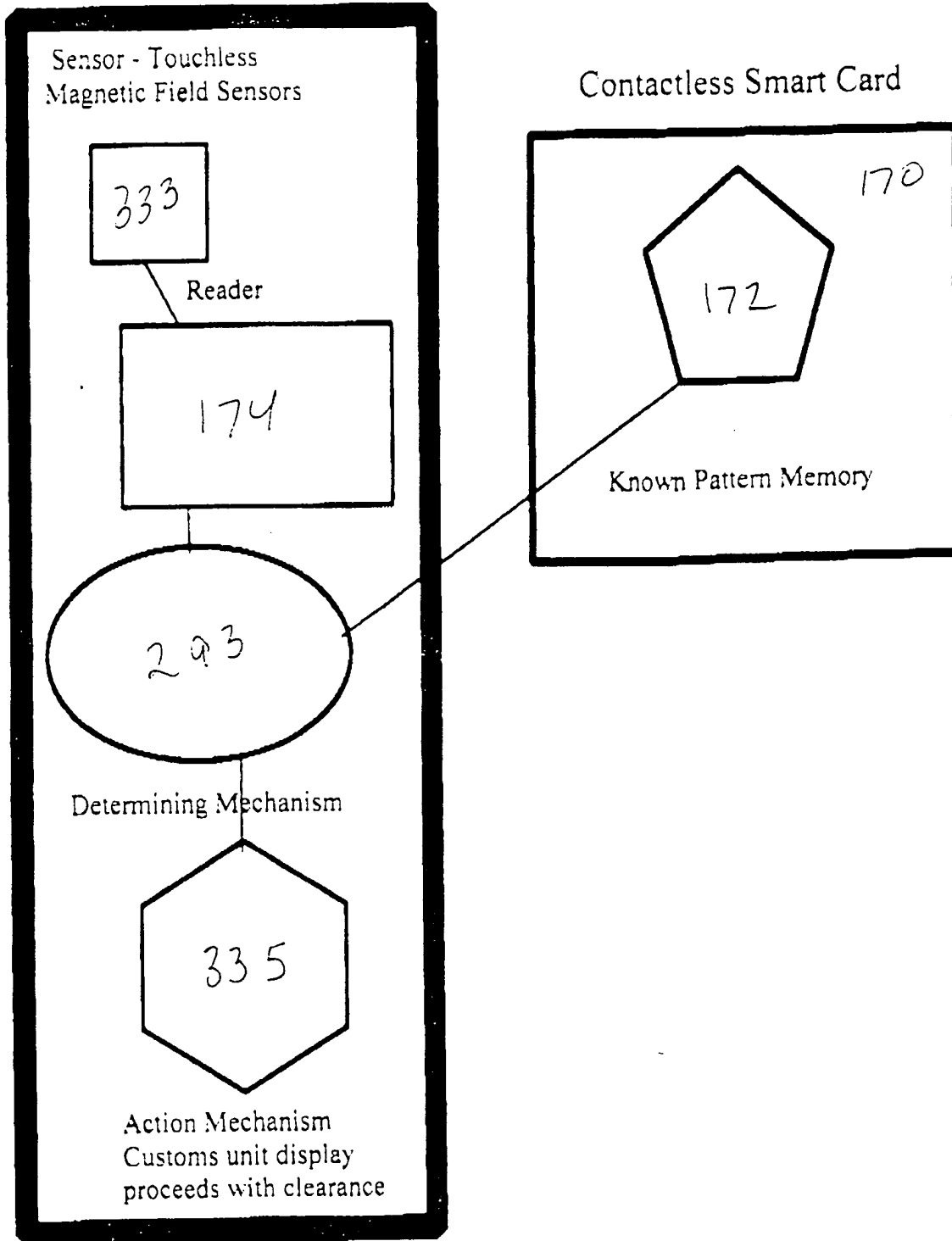
Electronic/Sensor Passport

Customs Passport Unit



Airline Check-in Hand Unit

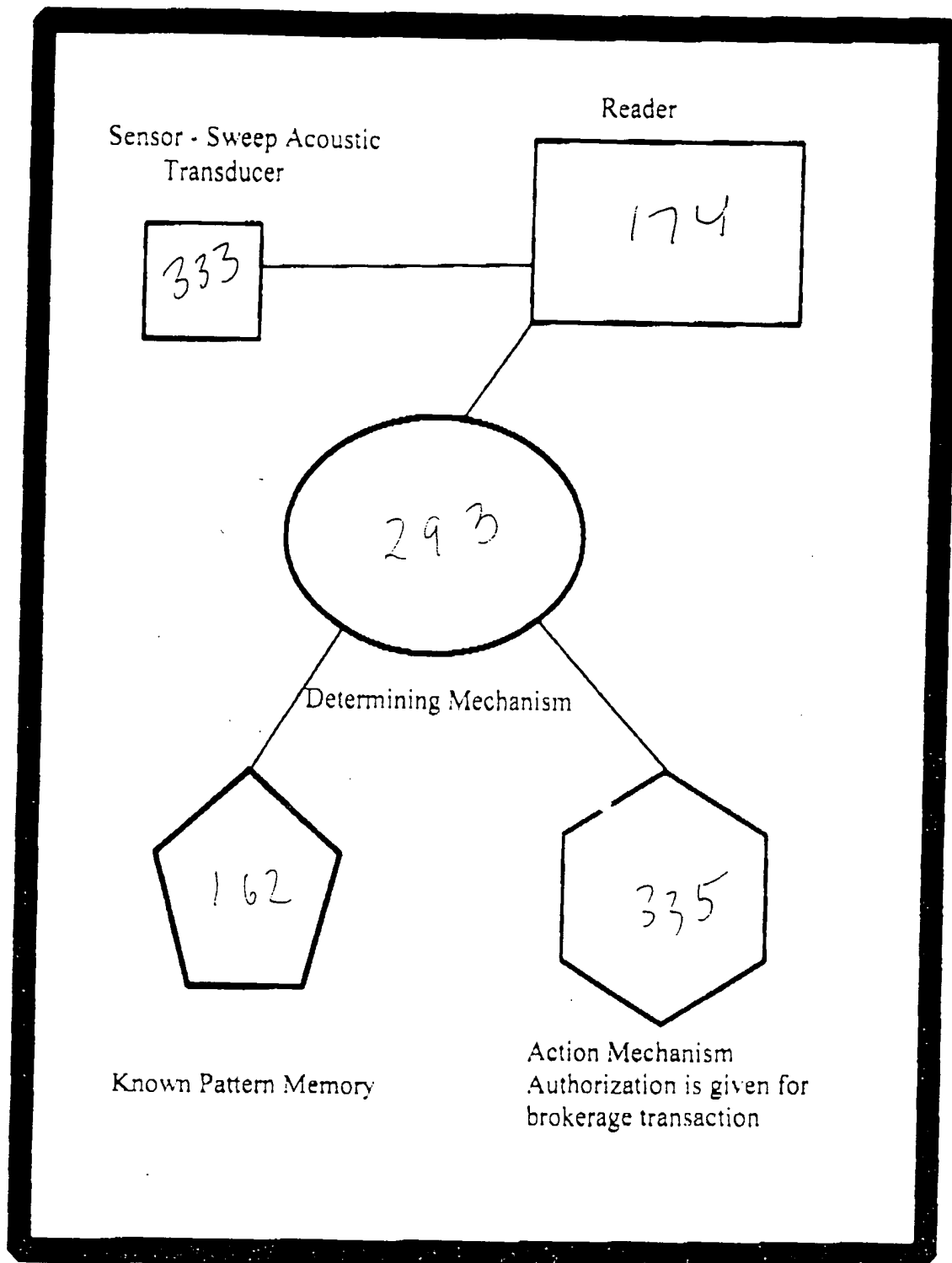
FIG 146



Recessed Sensor Unit in Lap-top Computer

F16

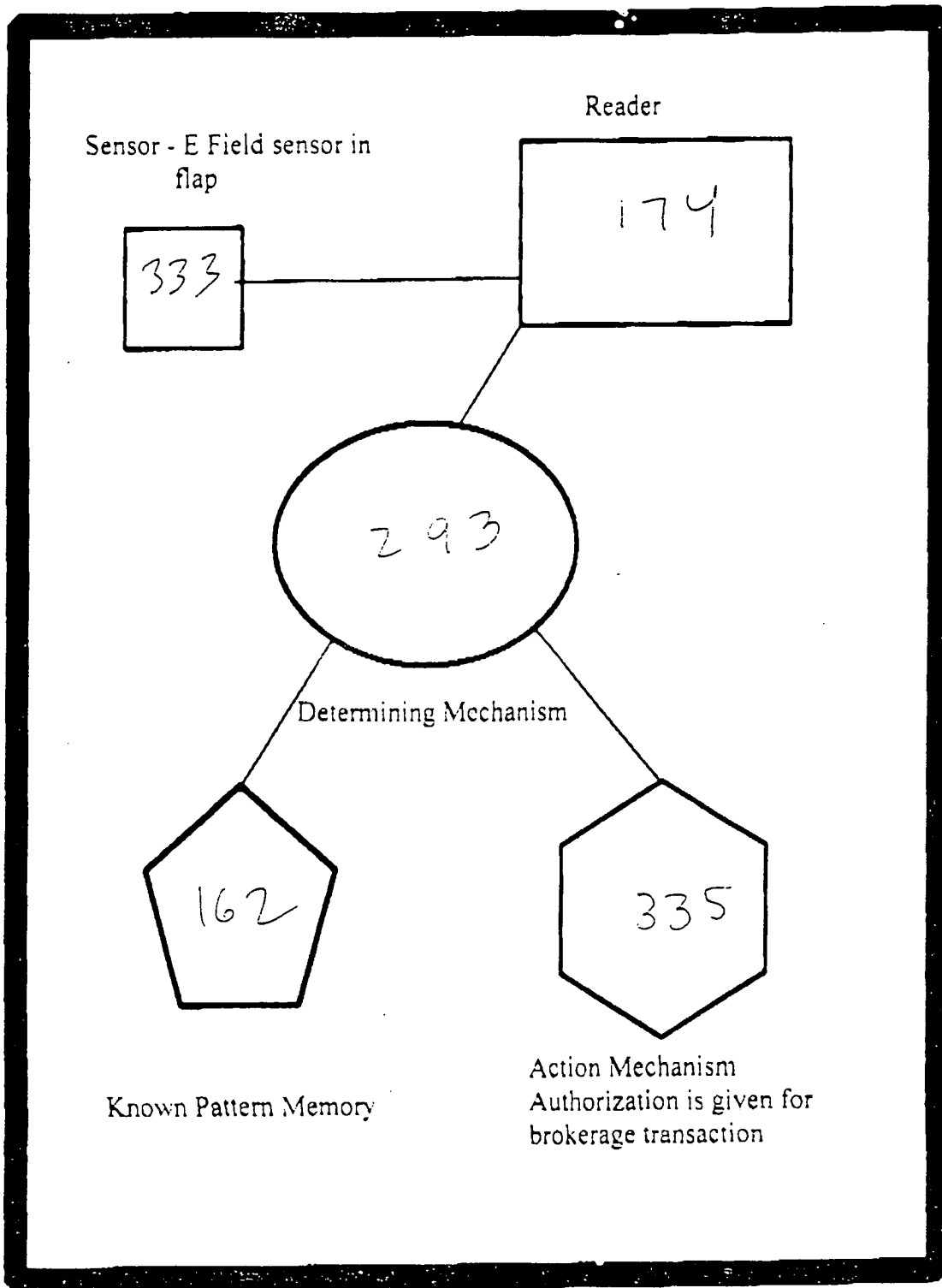
147



Recessed Flap Sensor Unit in Lap-top Computer

1716

148



Recessed Flap Sensor Unit in Cap-top Computer

FIG
148a

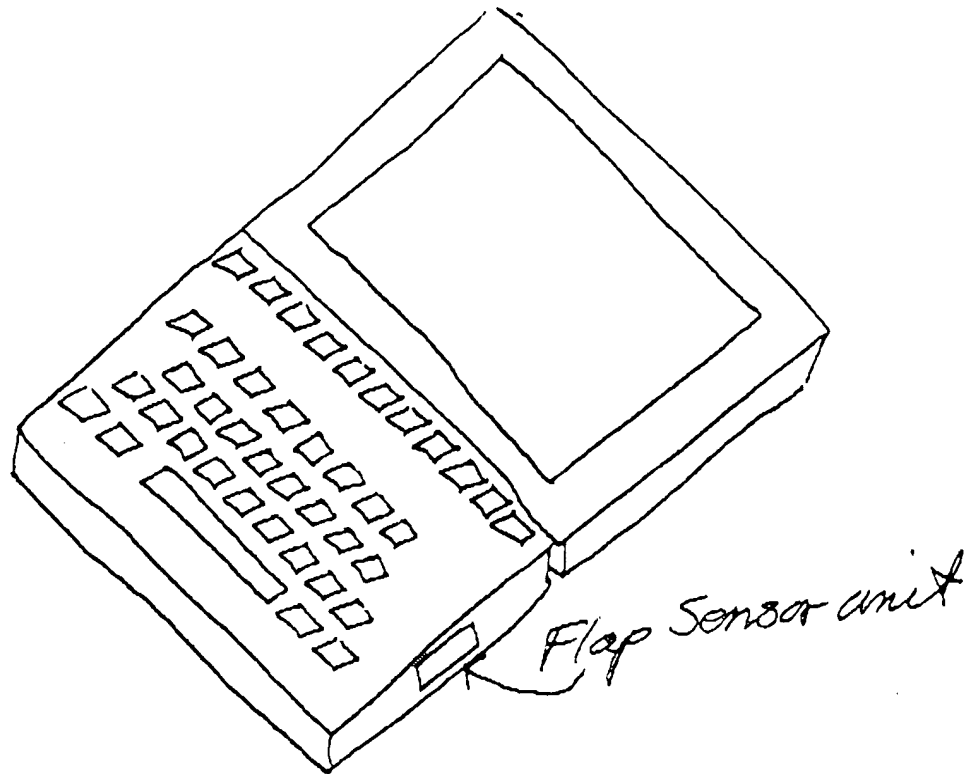
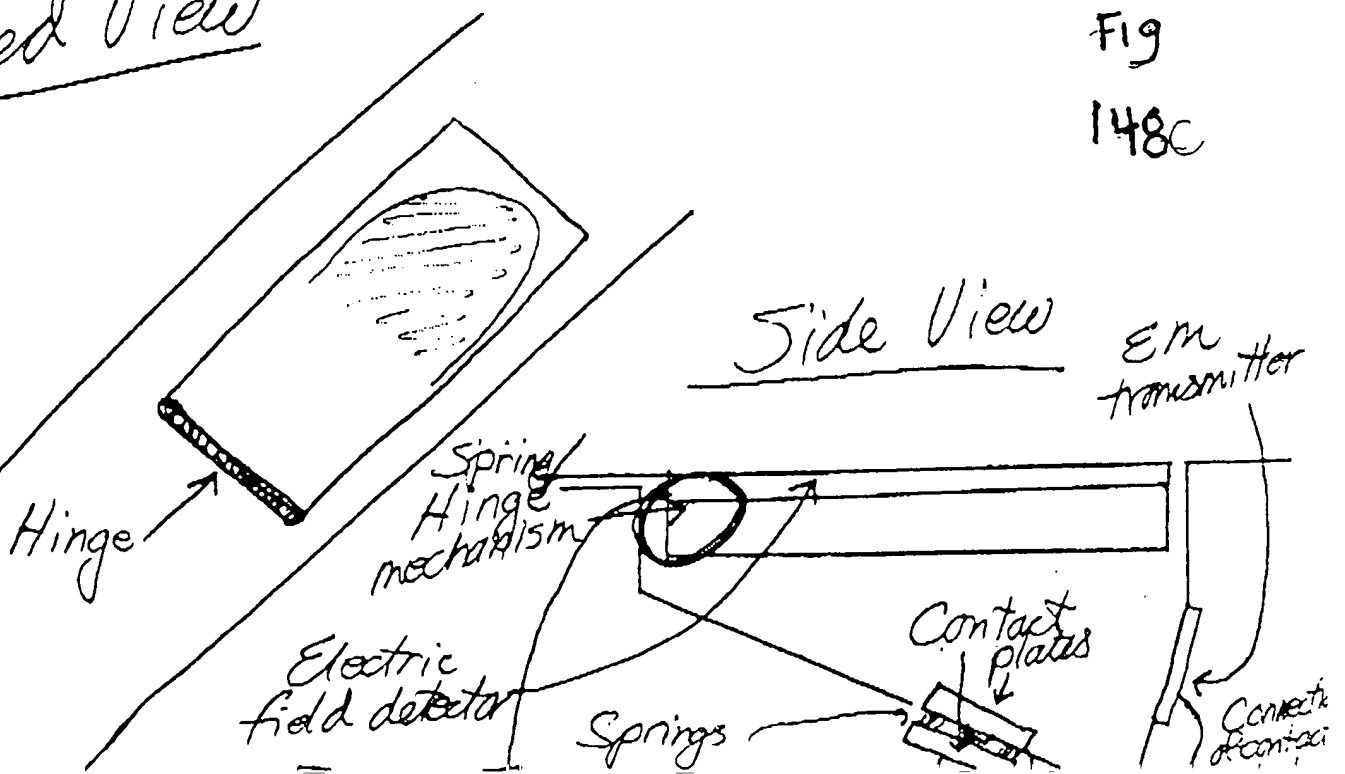
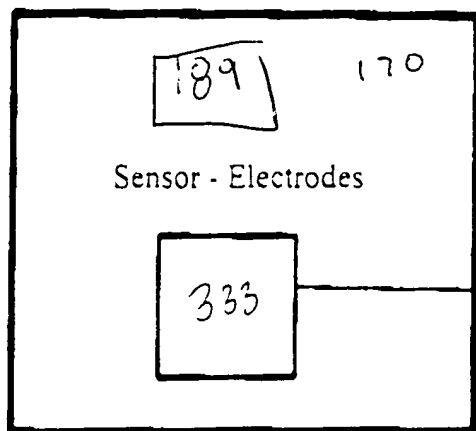


Fig
148b

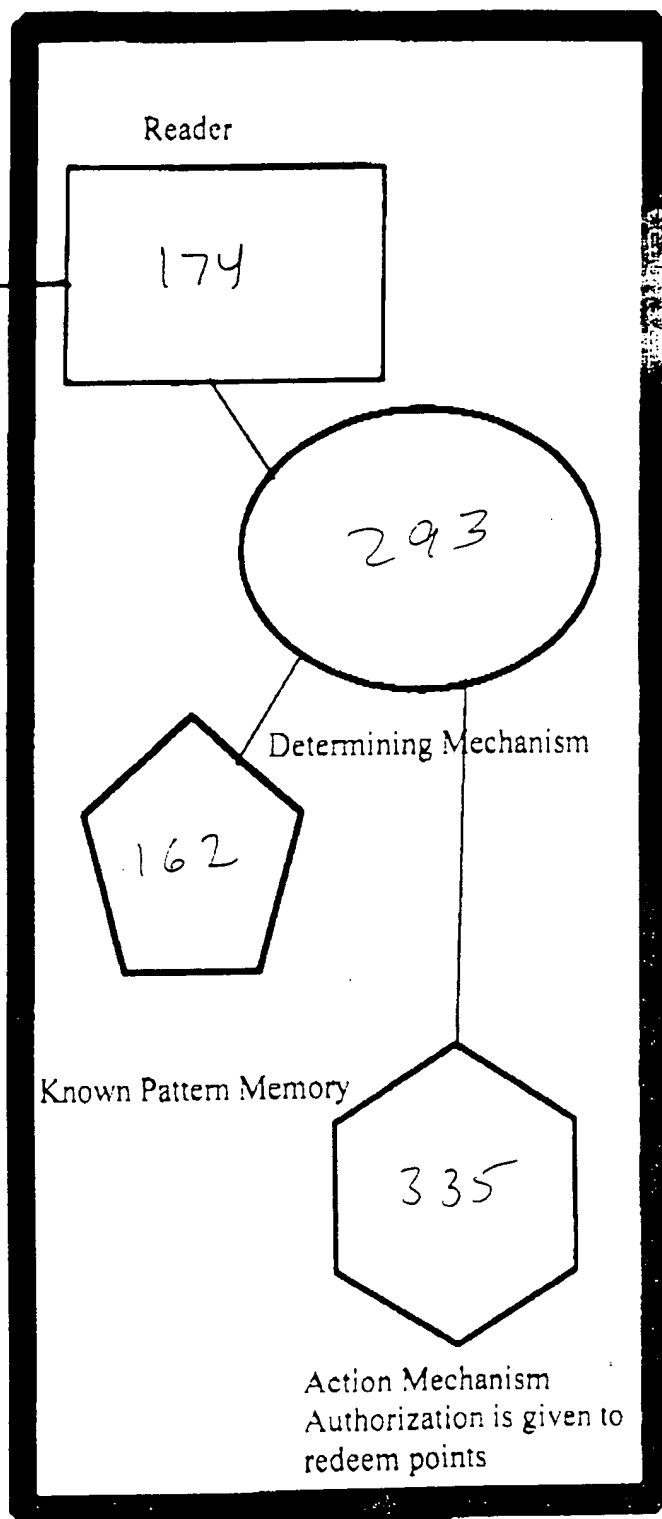
Enlarged View



Retail Electrode Card



Retail Electrode Card Reader at POS

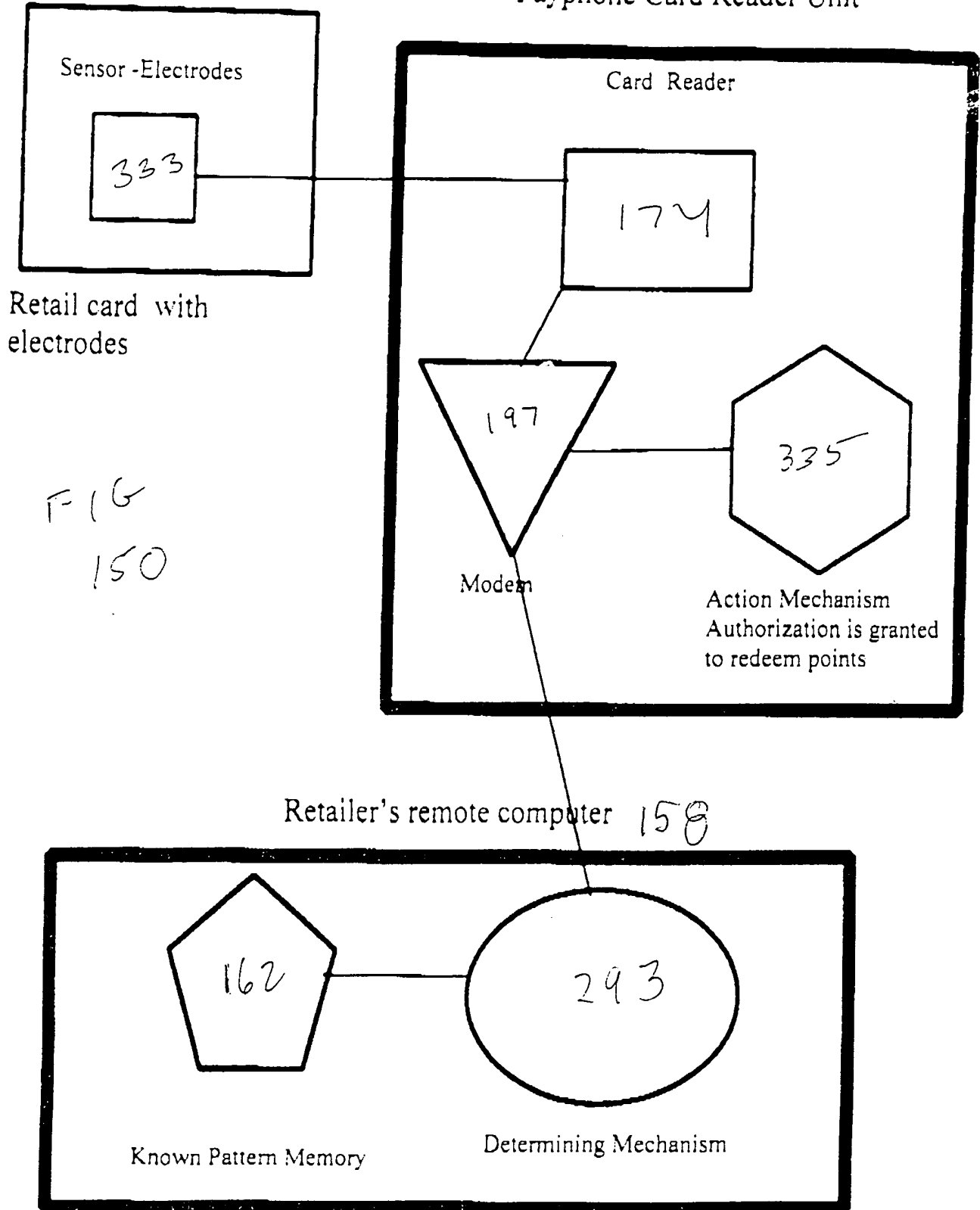


FIG

149

158

Payphone Card Reader Unit



Transmitter/Receiver Biometric Unit at Cash Register

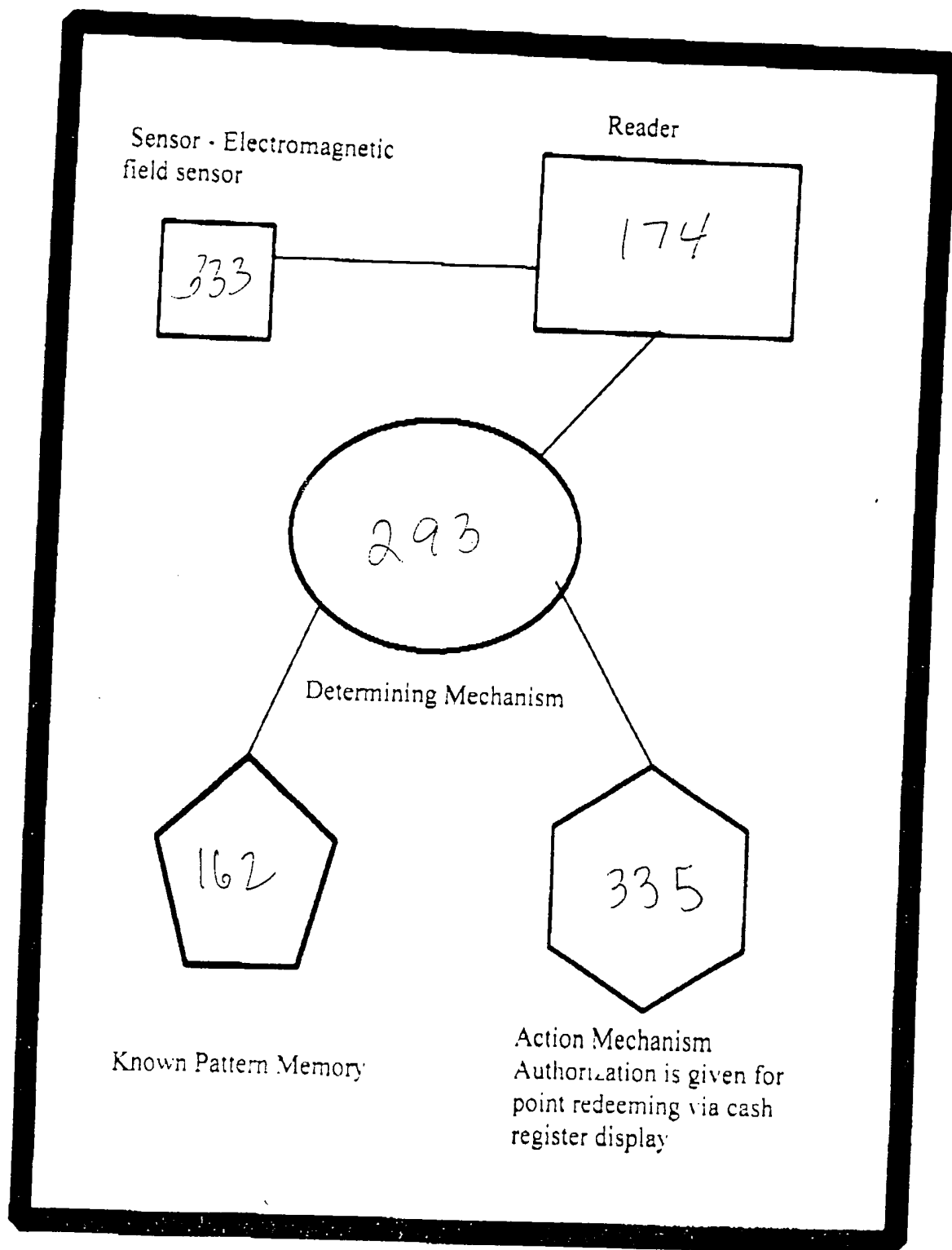
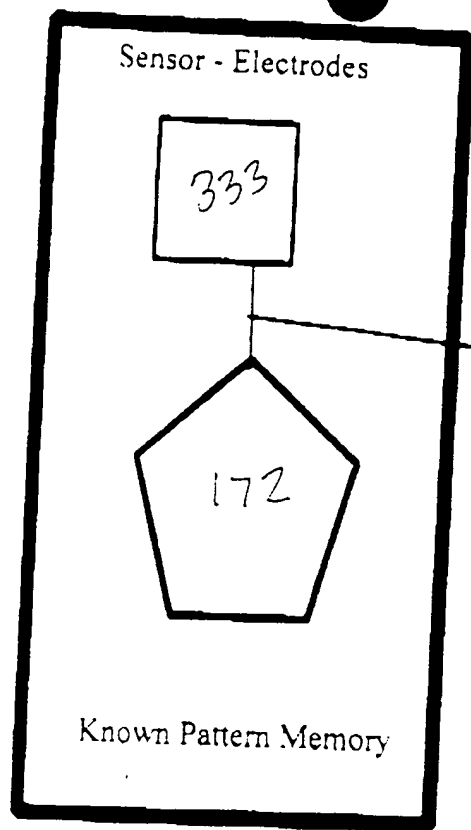
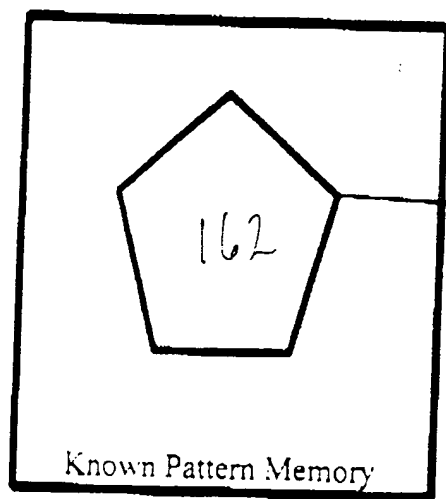


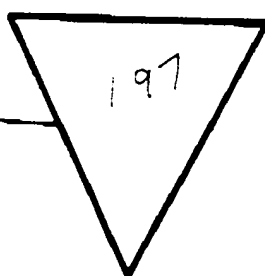
FIG
151



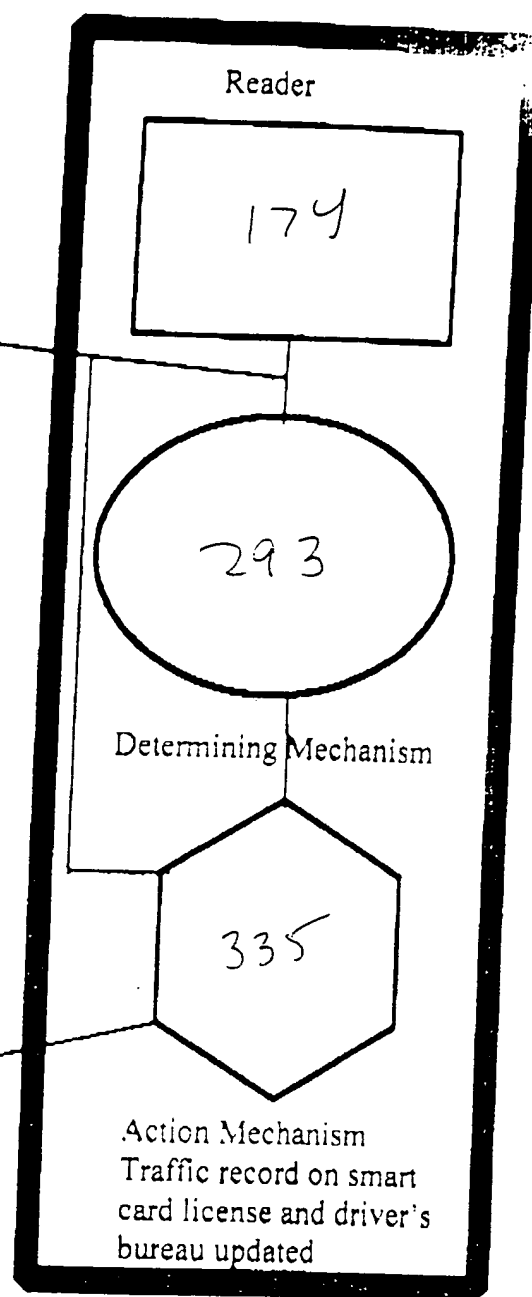
Driver's license smart card with electrodes



Traffic bureau computer
158

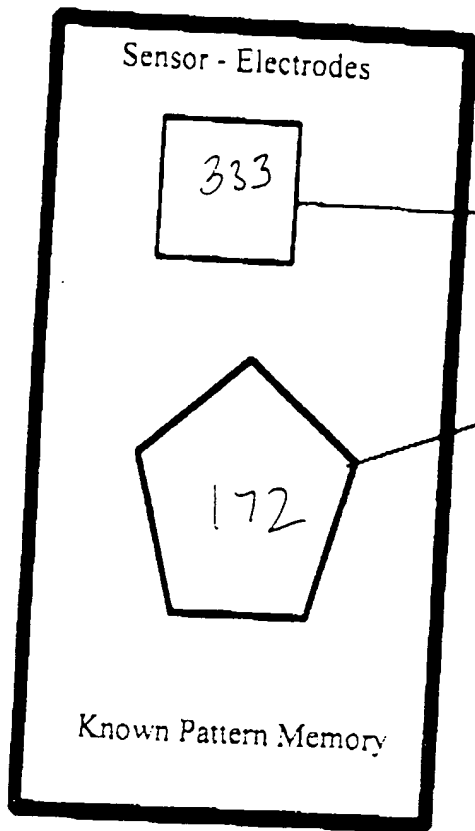


Modem



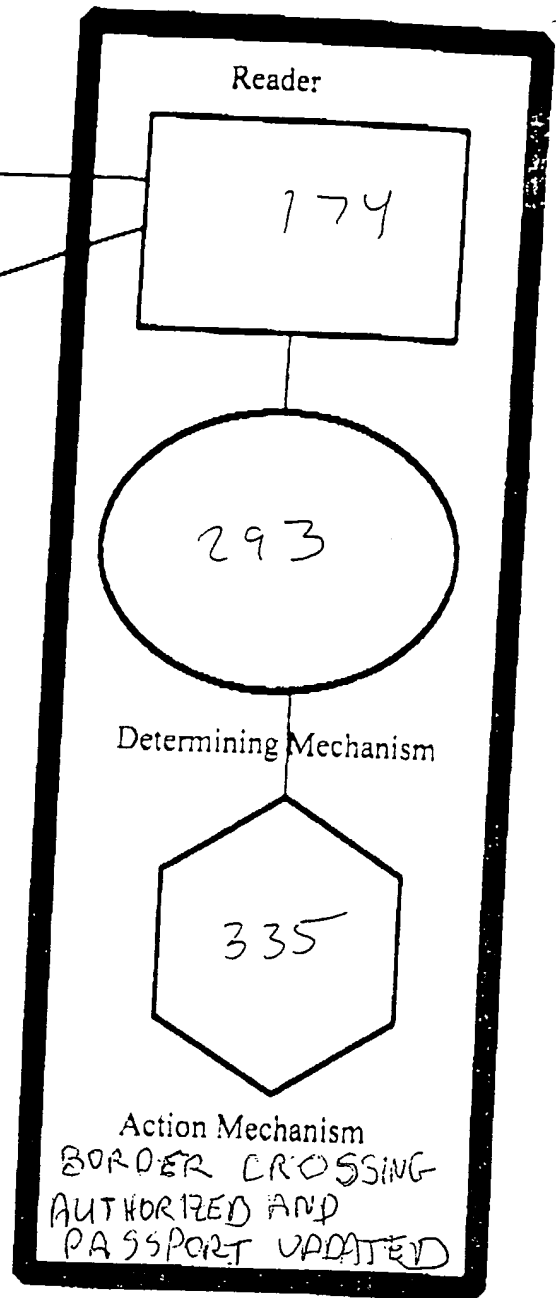
Hand-held or Car-installed
smart card reader

FIG 152



Passport smart card with electrodes

FIG 153

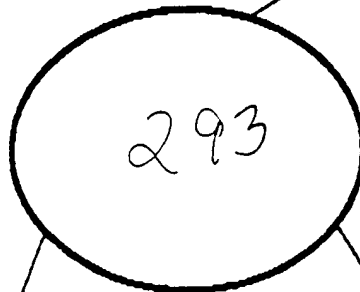
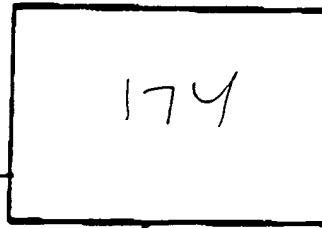
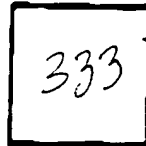


Passport smart card reader

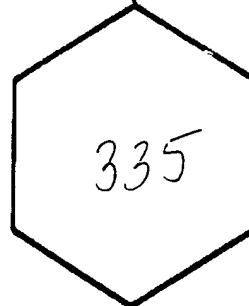
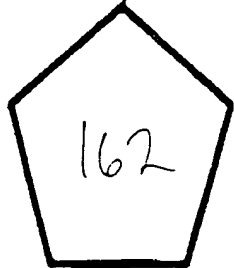
Well-mounted handpiece next to do

Sensor - Acoustic
generator with E Field
sensor

Reader



Determining Mechanism

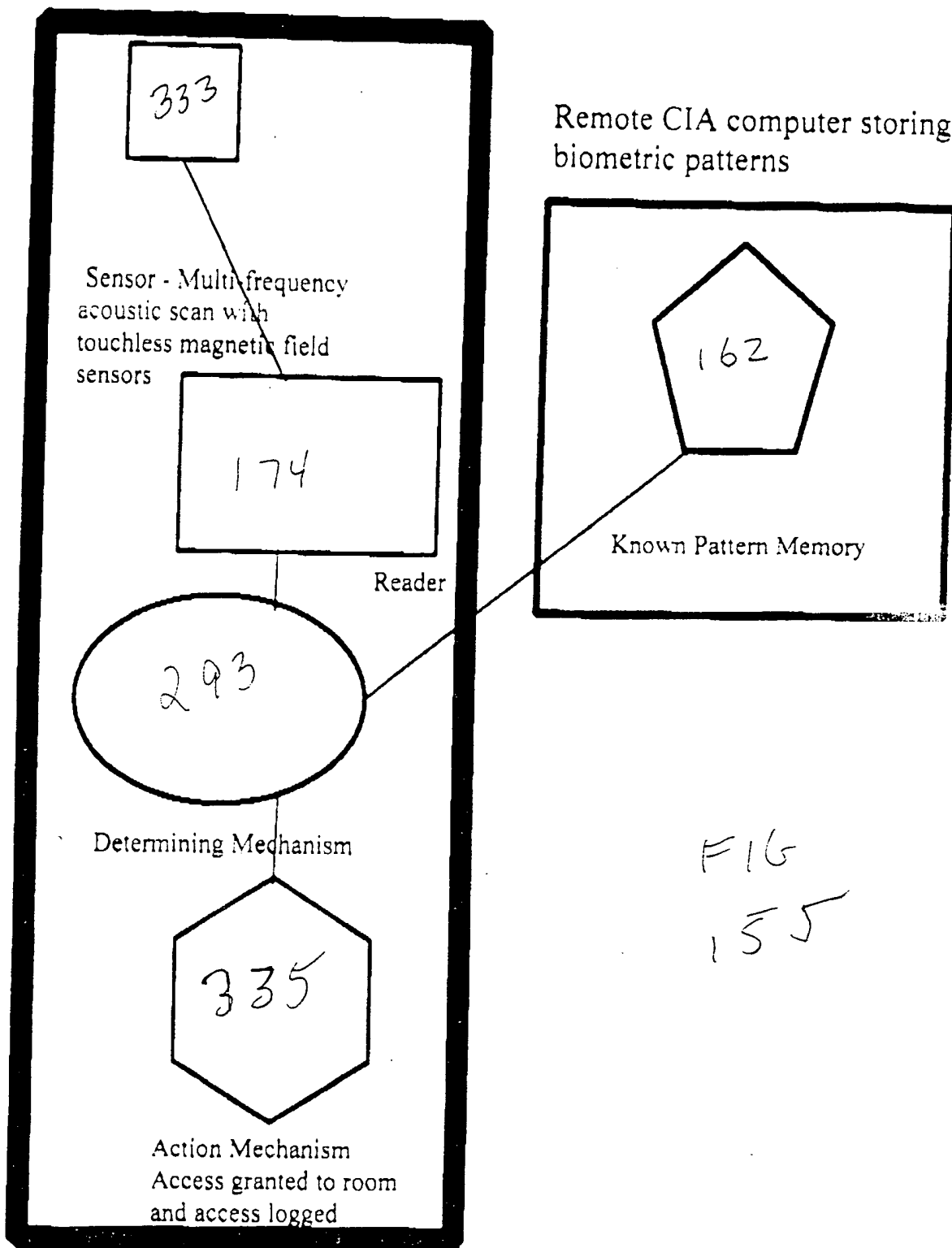


Known Pattern Memory

Action Mechanism
Access to room given and
logged

FIG
134

Hand unit on door



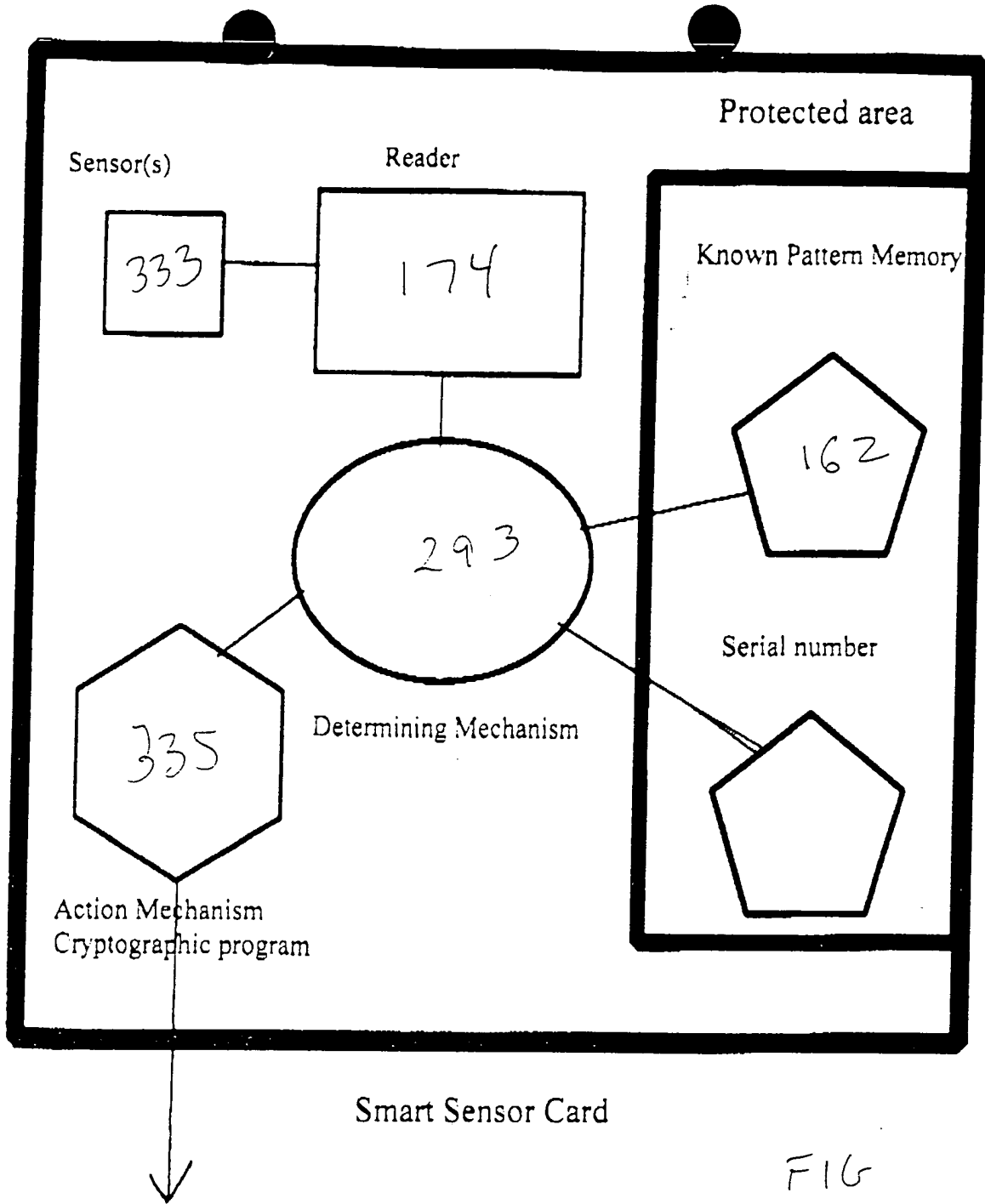


FIG
156

Sensor wristband

Writer and reader unit

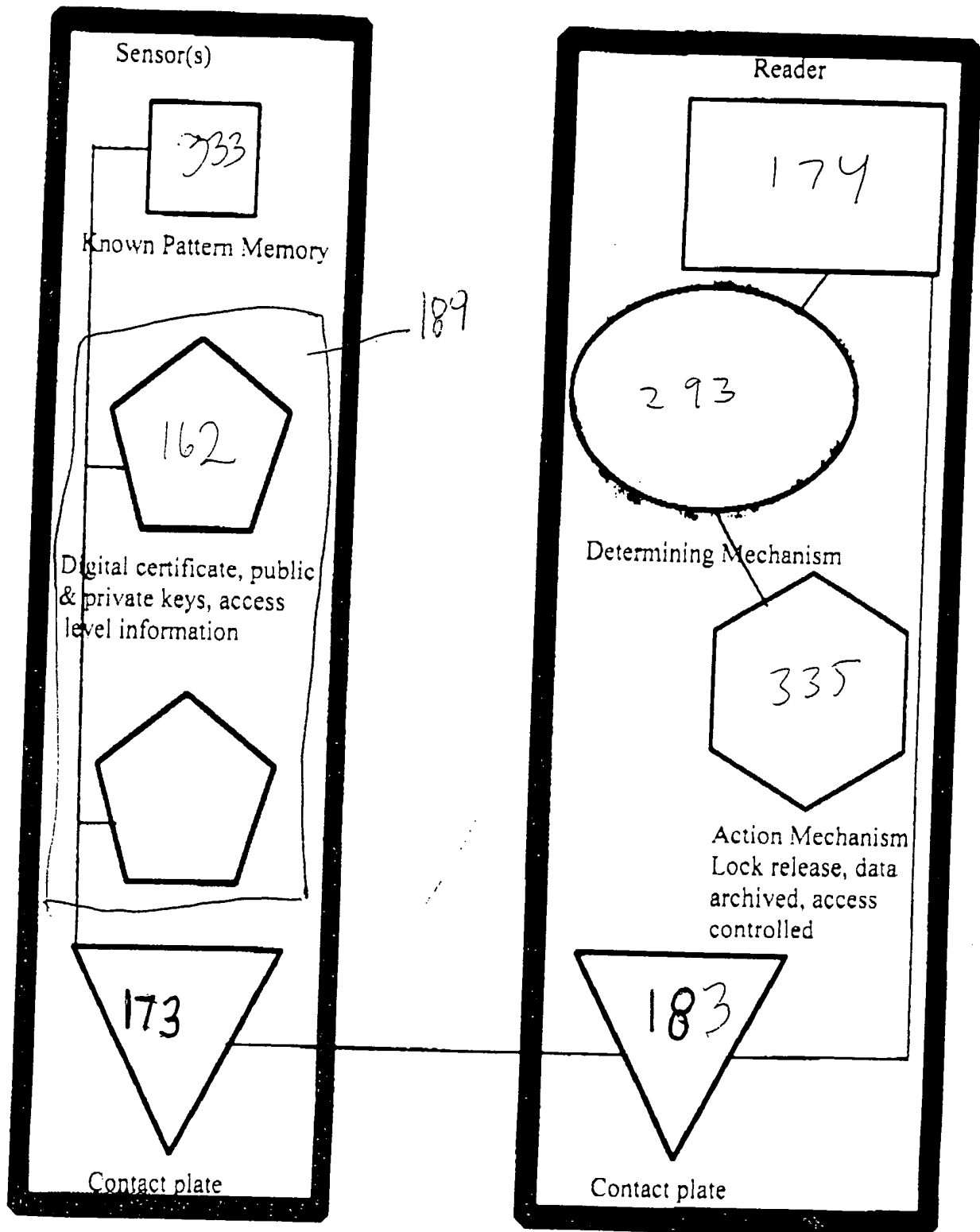
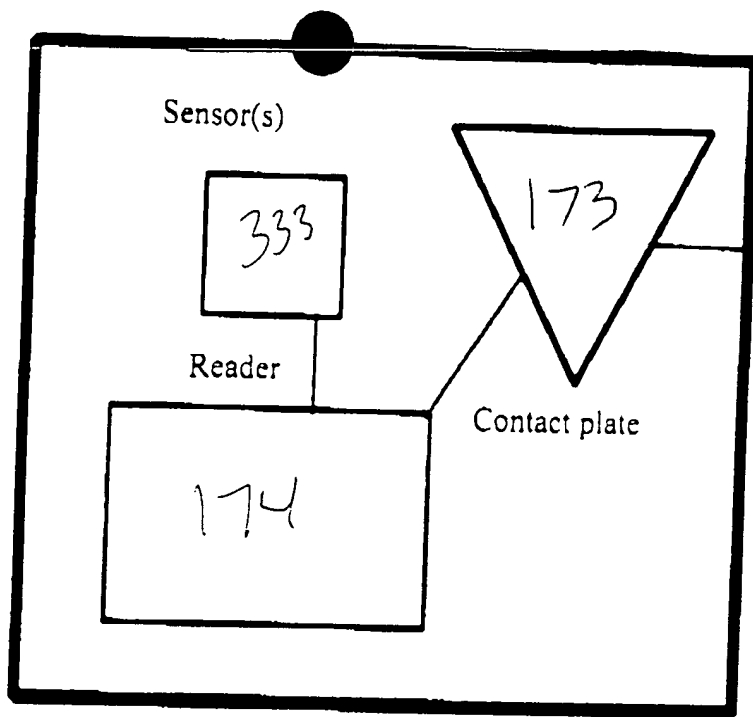


FIG 157

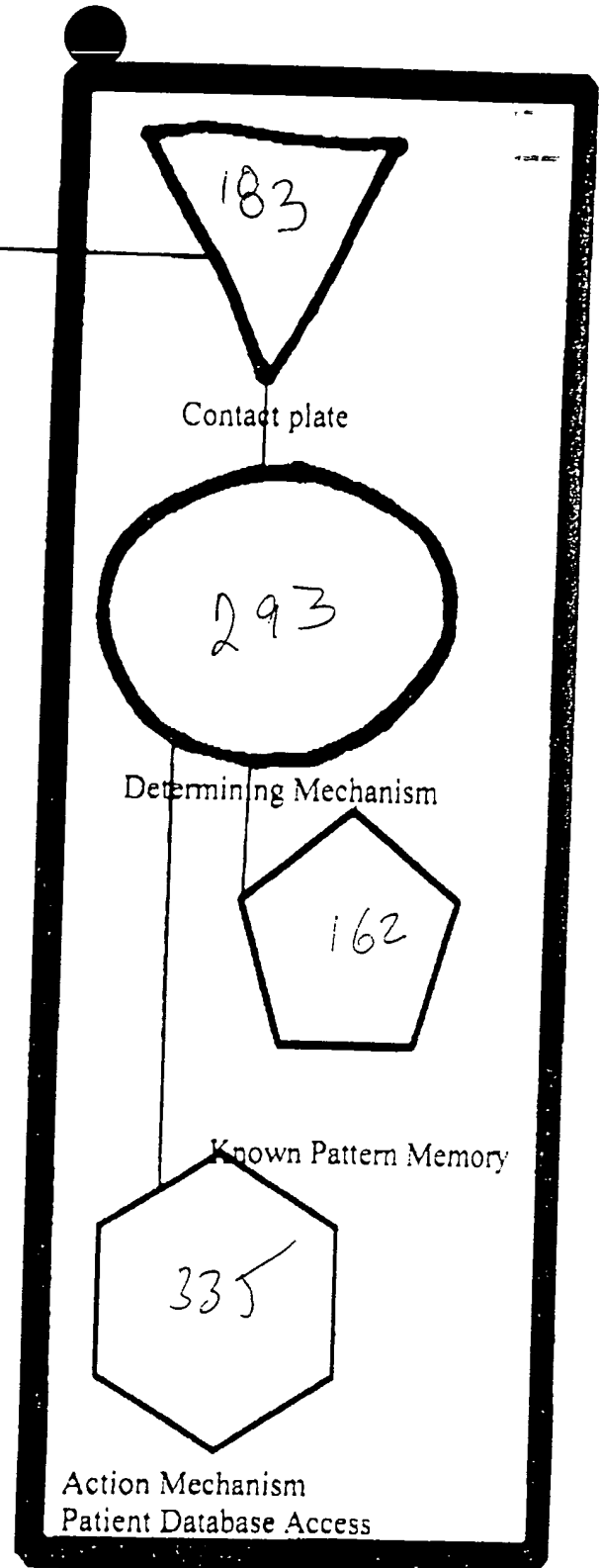
CONFIDENTIAL



Electronic Medical Record Notepad

F16
158

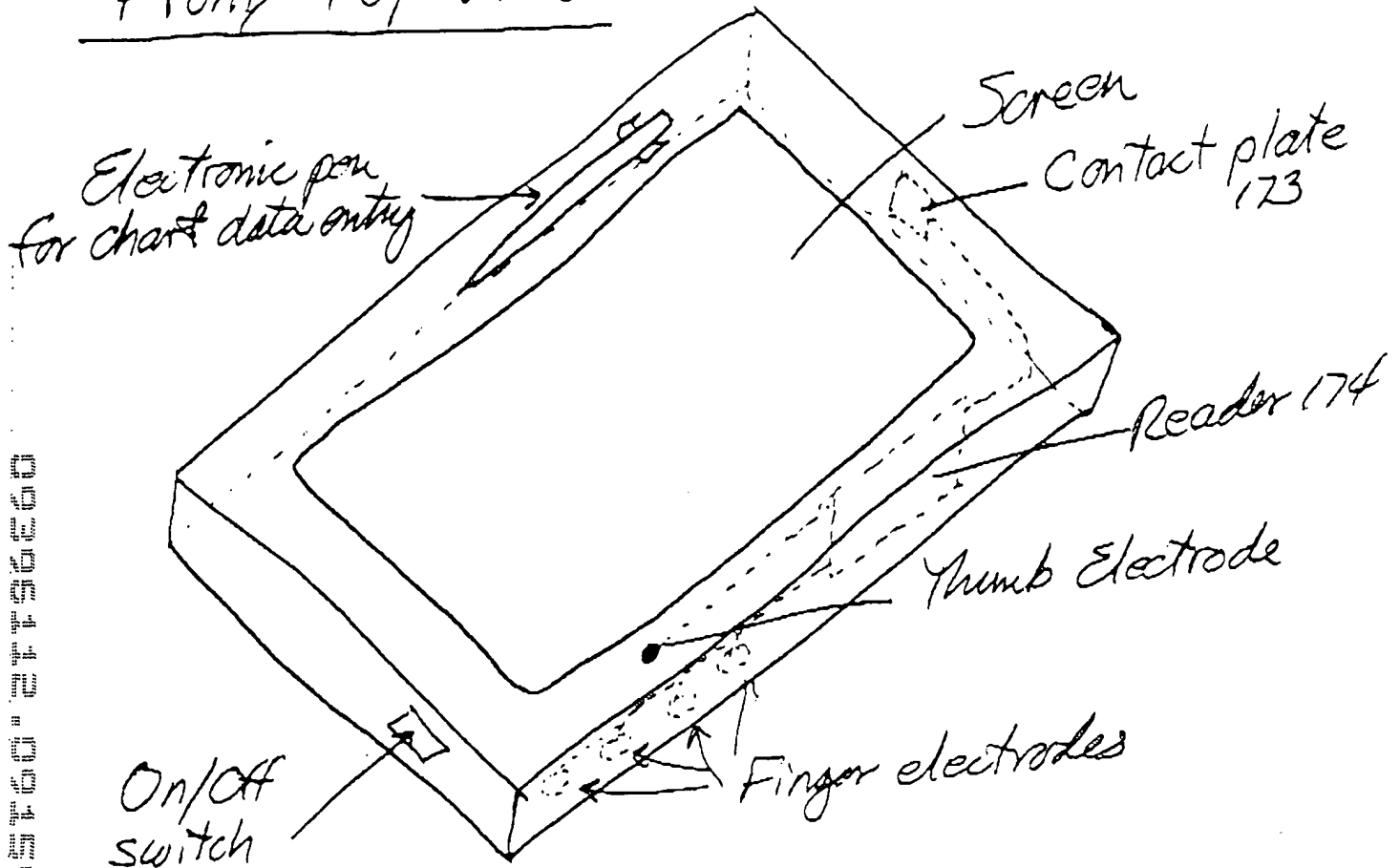
Hospital Database



Electronic Medical Record Notepad

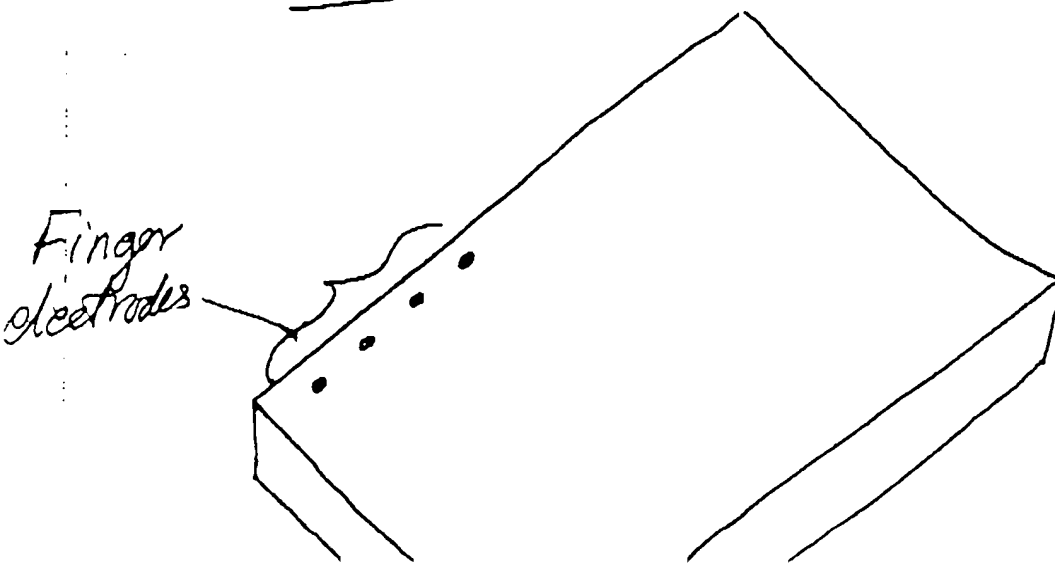
Fig
158a

Front/Top View

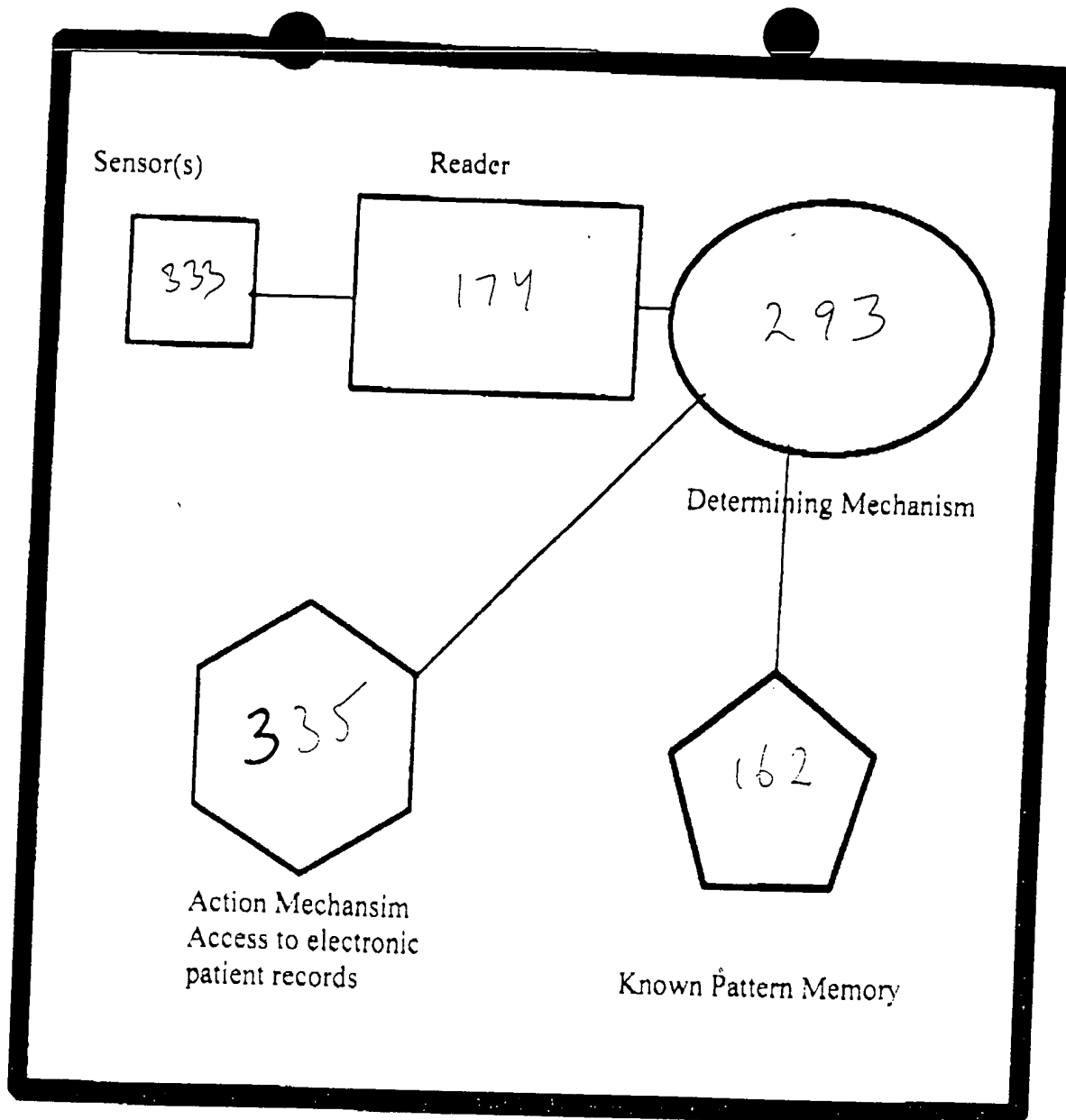


Bottom View

Fig
158b



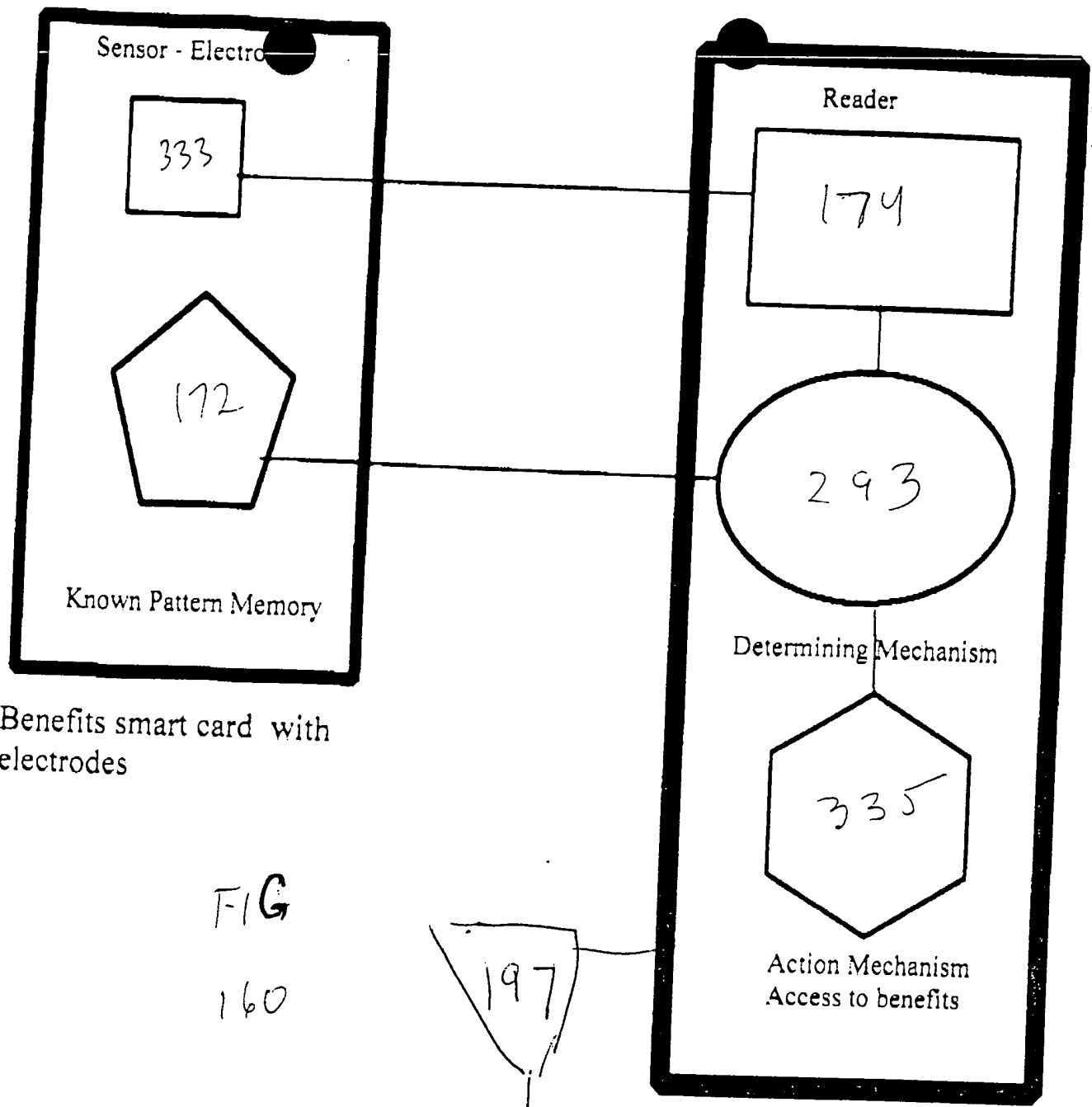
603460" 273660



Smart Sensor Wristband

FIG 159

663460" 213660



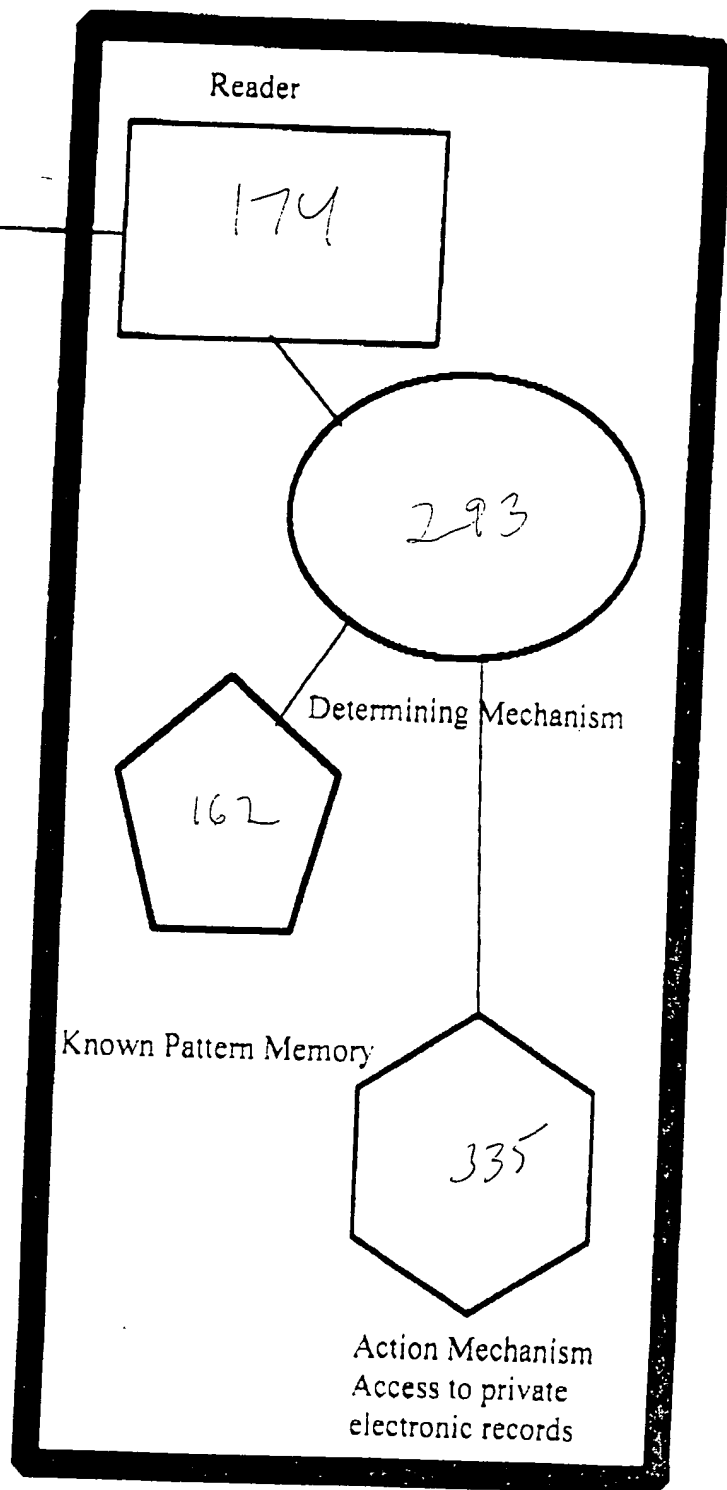
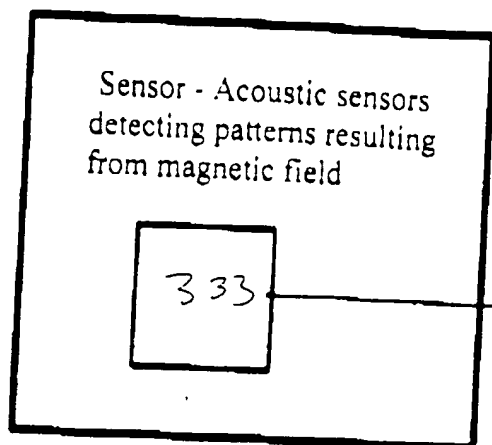
Benefits smart card with electrodes

FIG
160

Smart card reader

Biometric Glove

Glove Reader Unit in Record Accessing Device



FIG

161

663750" 279666

Biometric Glove

Back View

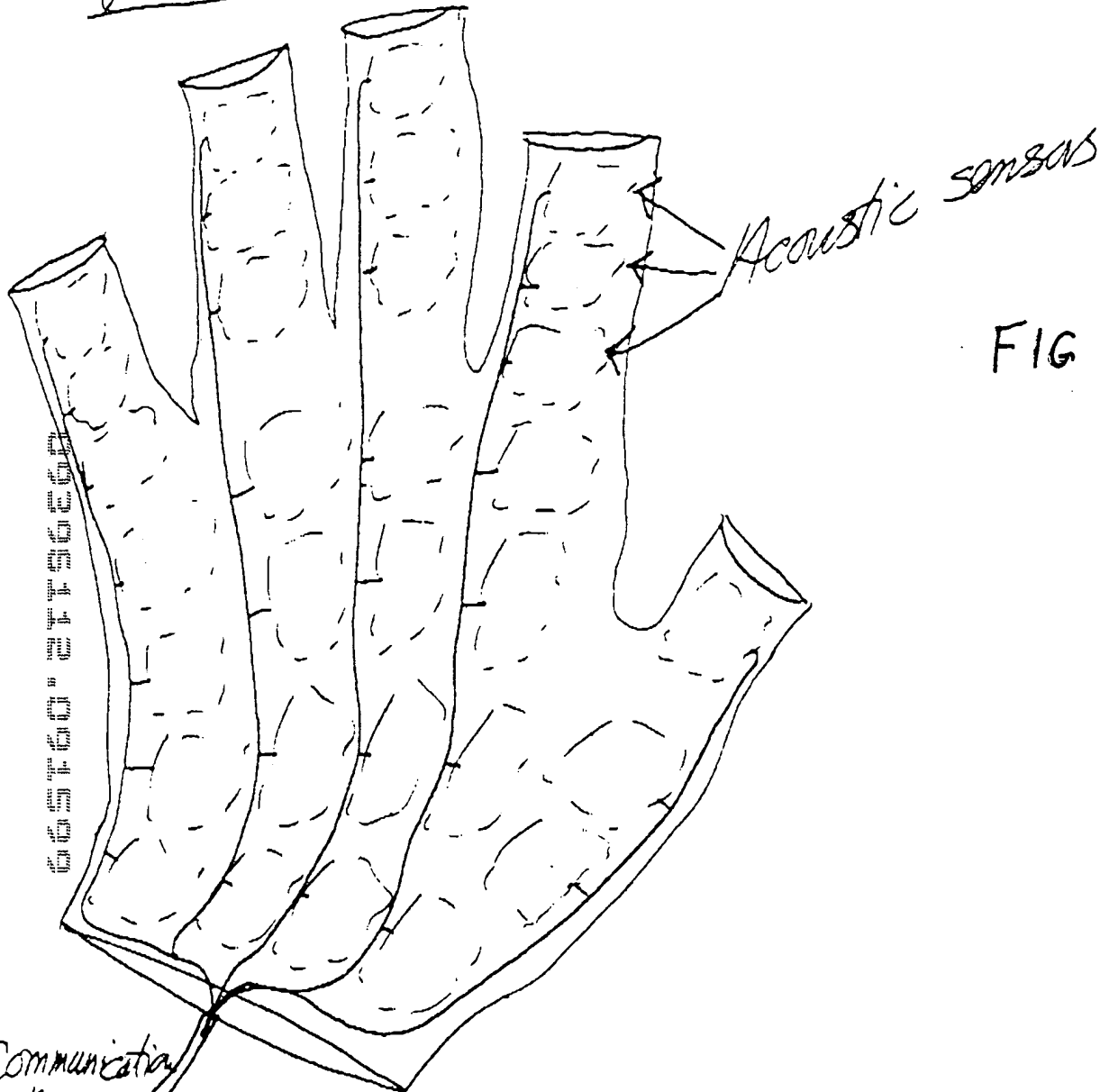


FIG 161 a

Communication
cable
Reader 174

Side View

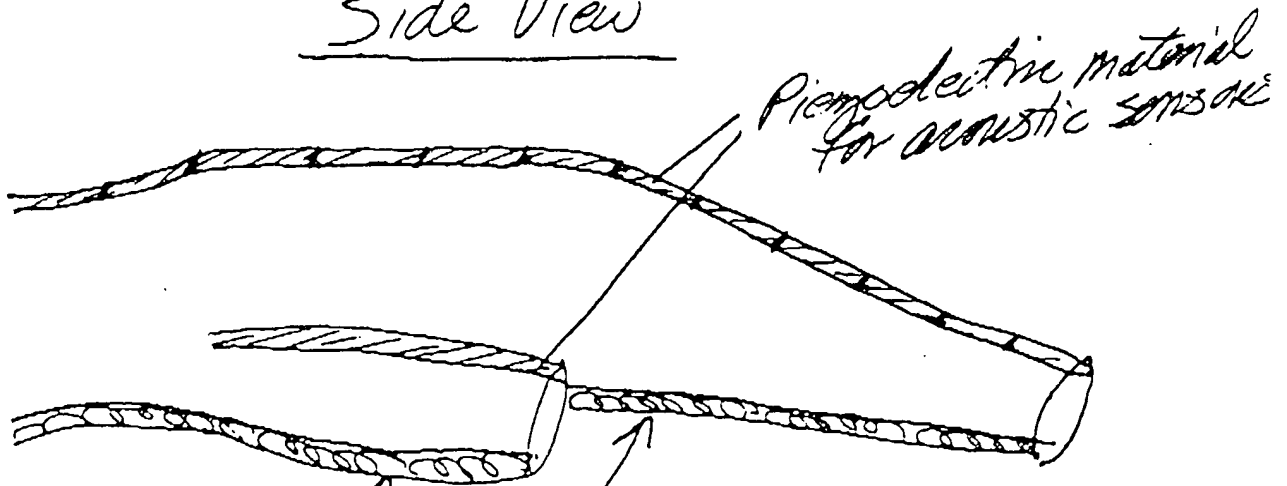
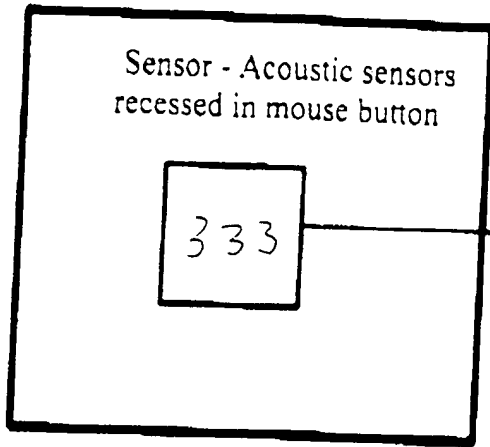


FIG 161 b

Mouse with flip-up button
and recessed sensor
mechanism



Reader Unit communicating with mouse

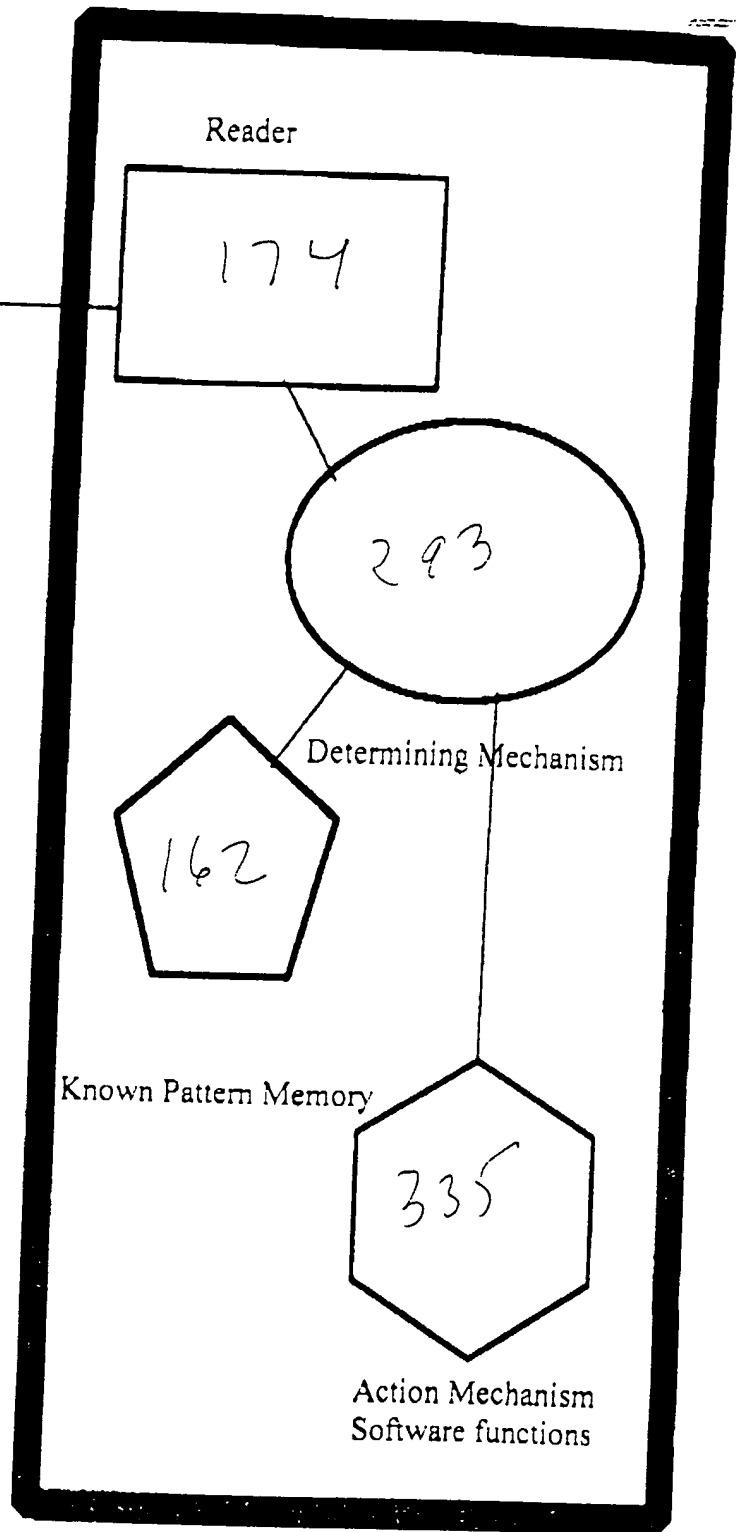


FIG
162

66360-249660

Mouse with Recessed Sensor

Fig
162a

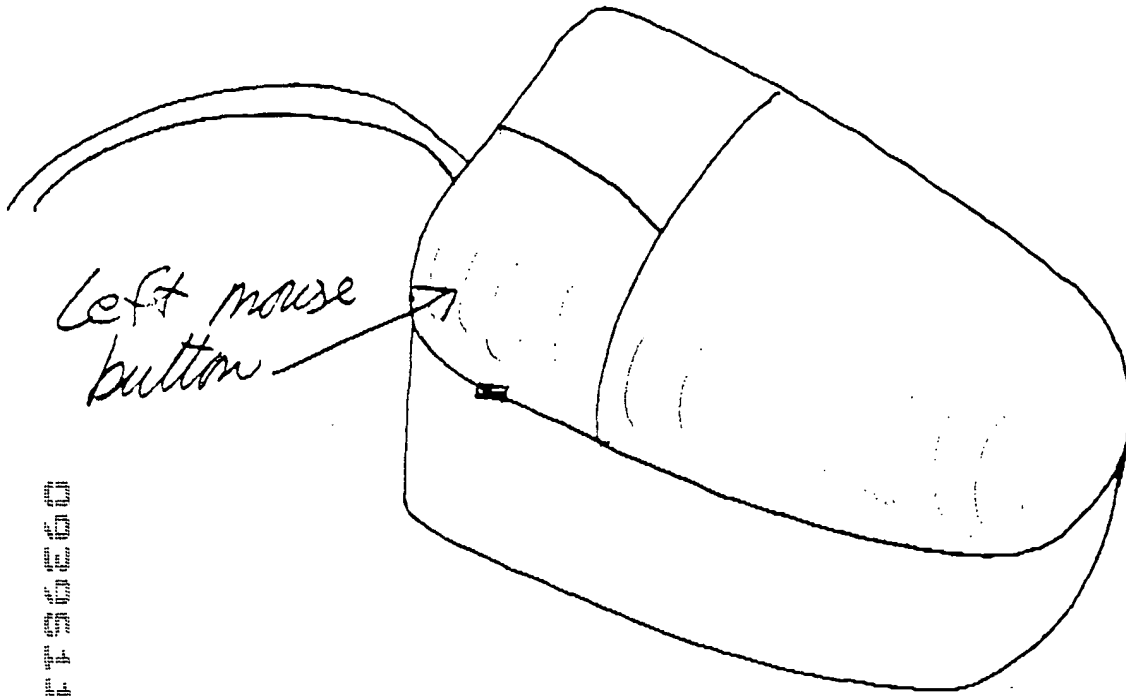


FIG. 162a

Fig
162b

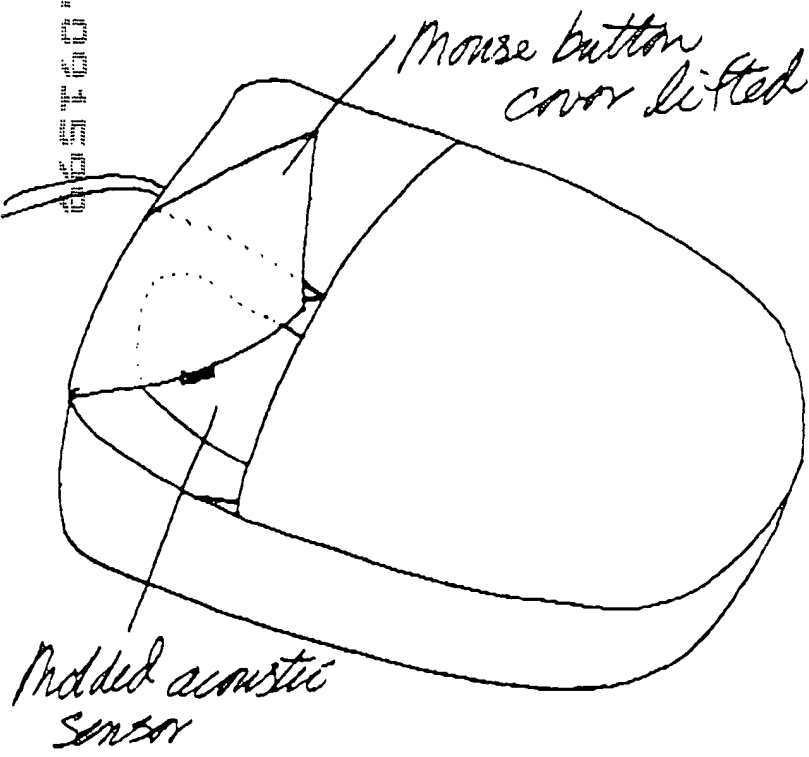
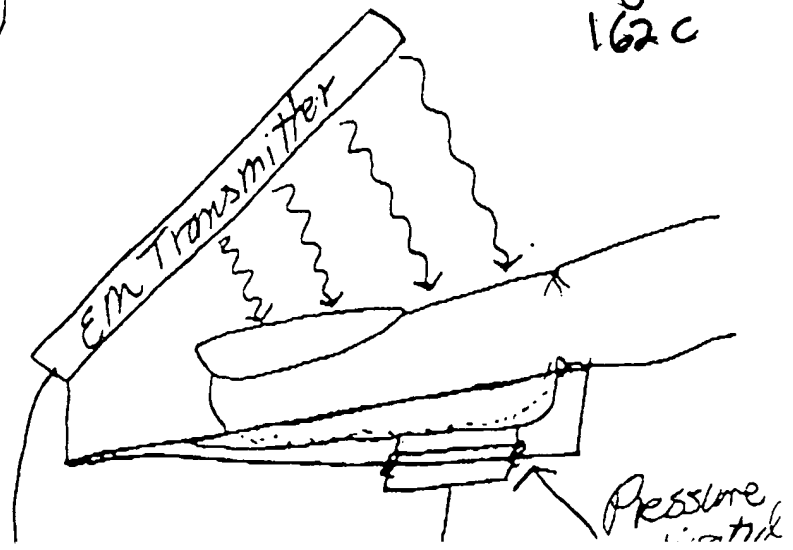
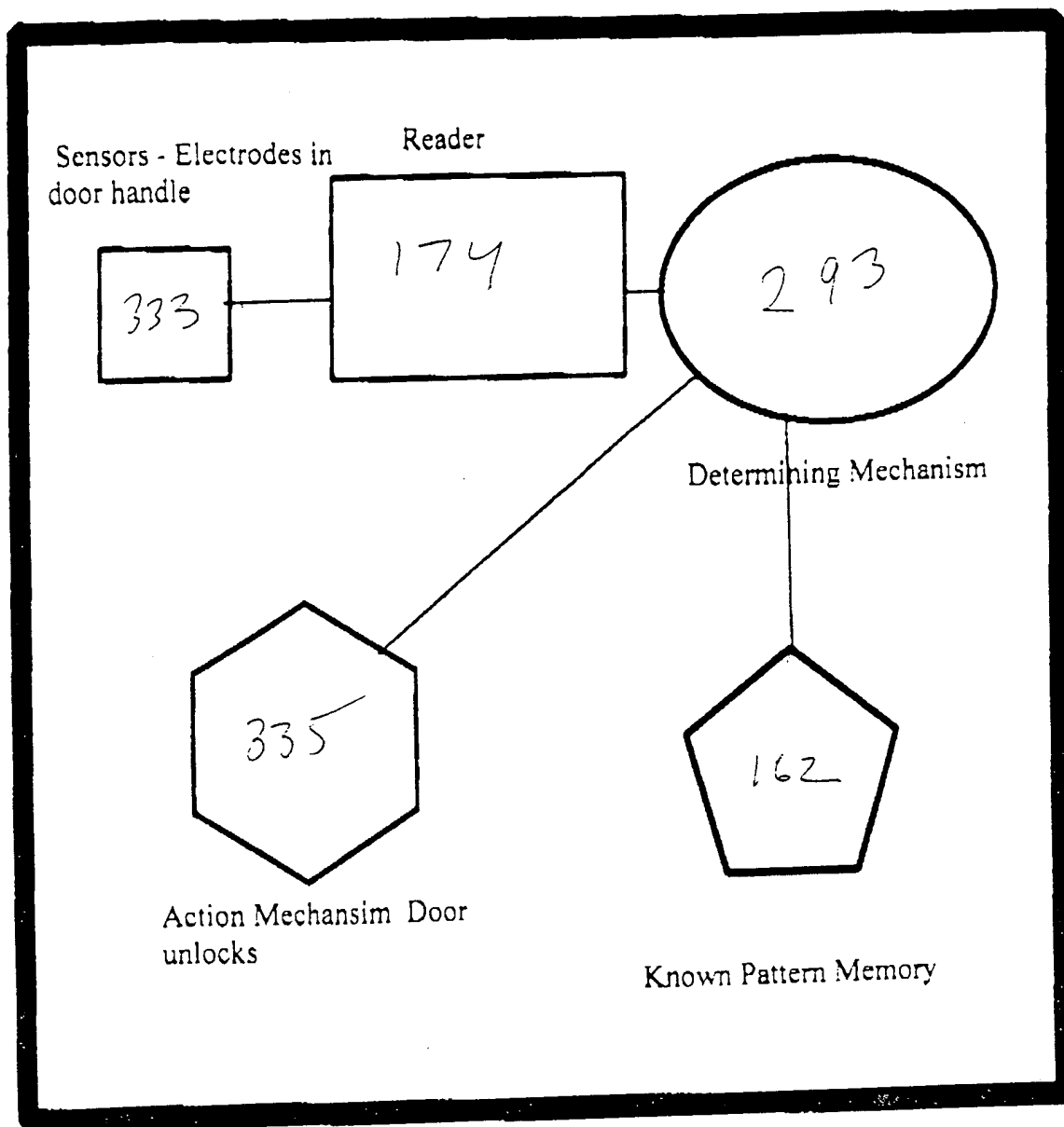


Fig
162c



2025 RELEASE UNDER E.O. 14176



Biometric Door Handle

FIG 163

Handles With Electrode Sensors

Fig
163a

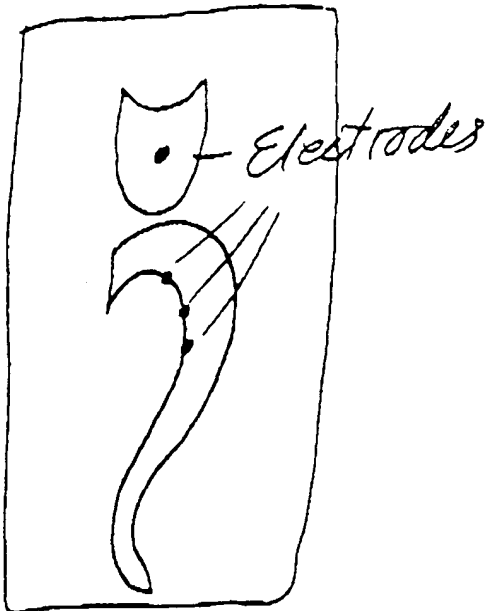


Fig
163b

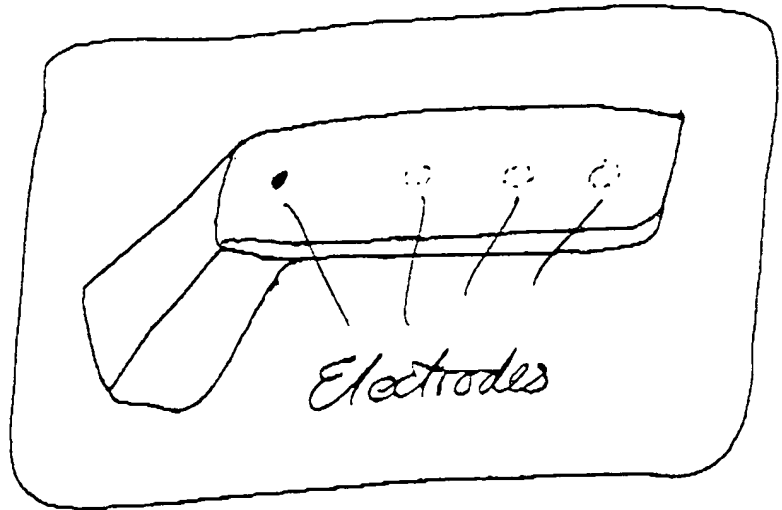


Fig
163d

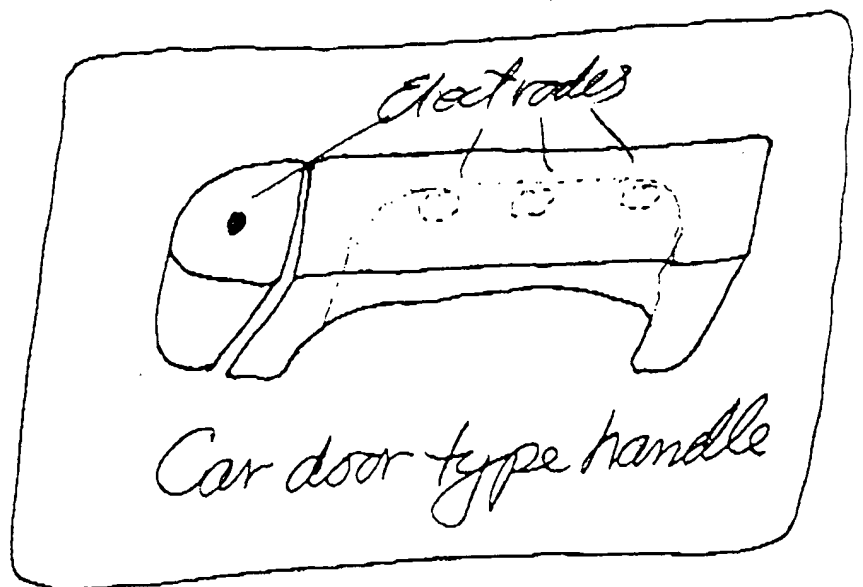
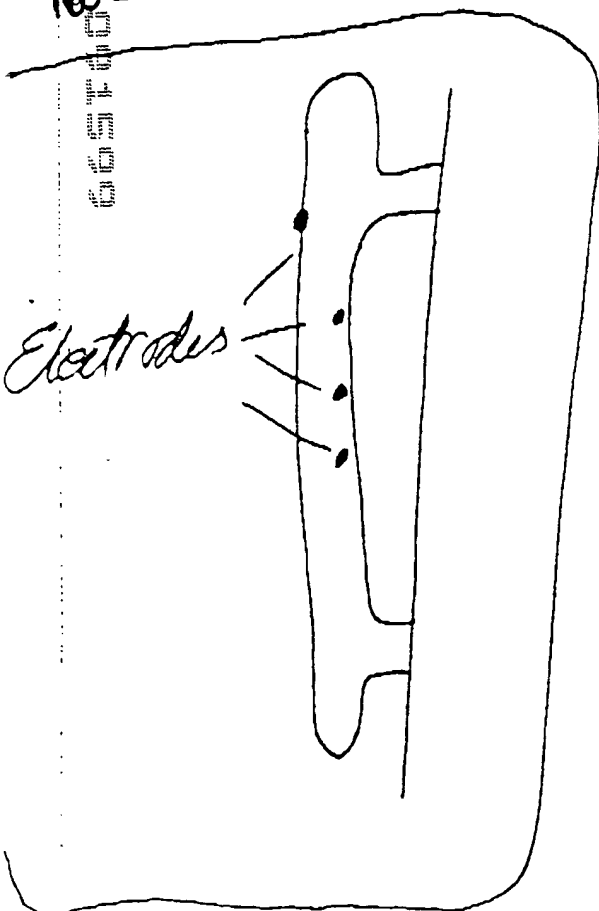


Fig
163c



Handles With Acoustic Sensors

Fig
163e

FIG. 163F

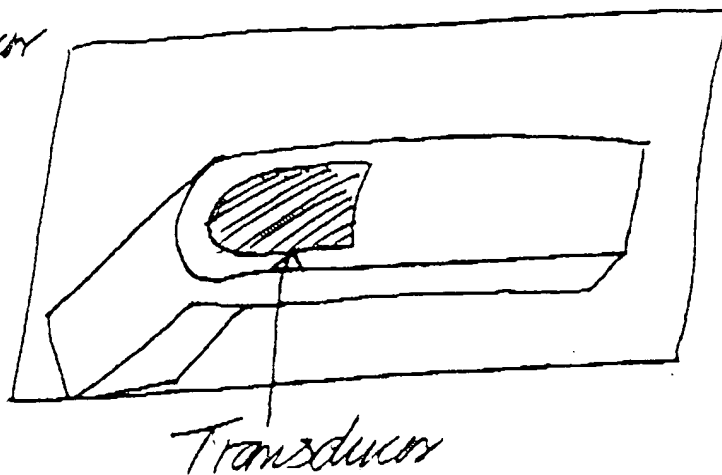
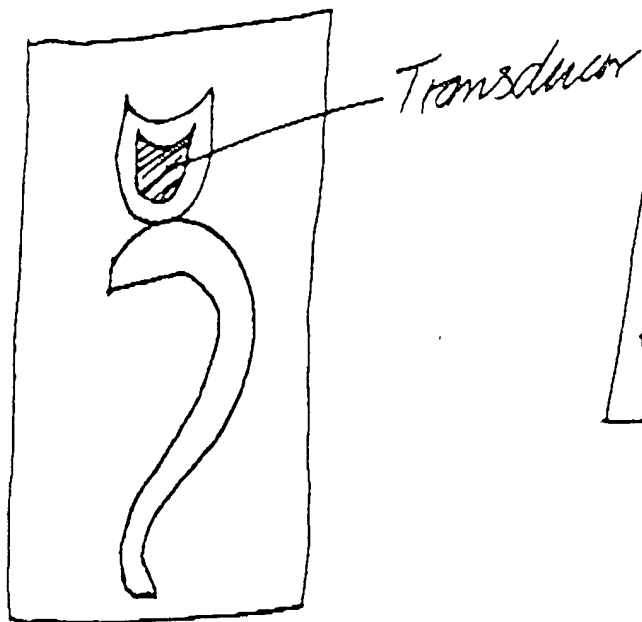
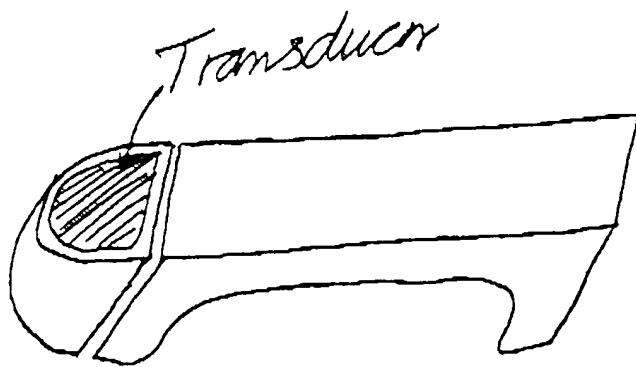


FIG. 163H



Car door type handle

FIG
163G

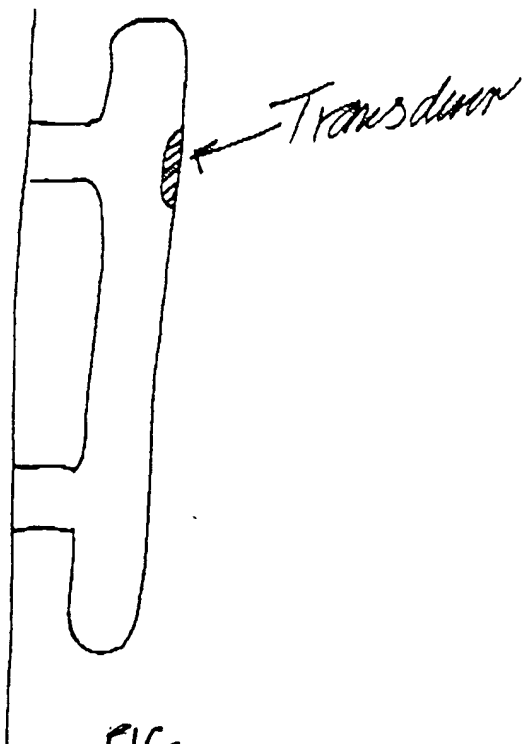


FIG 164

[illegible]

FLG 165

```
graph LR; A[Sensors - Electrodes in door handle  
333] --- B[Reader  
174]; B --- C((Determining Mechanism  
293)); C --- D{{Known Pattern Memory  
162}}; D --- E{{Action Mechanism Door unlocks  
335}}; F[Metal Key] --- E;
```

Biometric Door Handle

FL 166

Sensors - Electronic in door handle

Sensors - Acoustic transducer in thumb flap

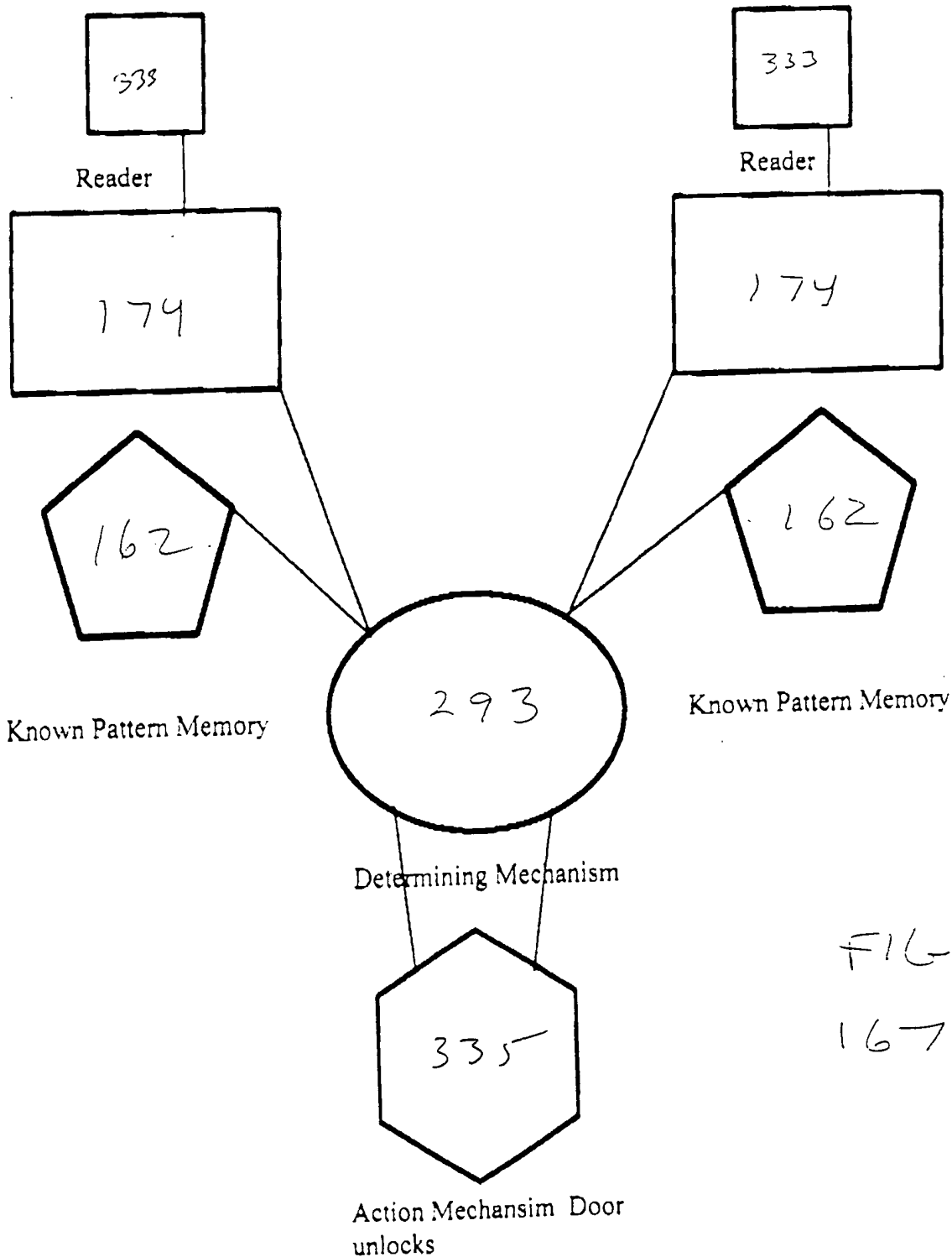
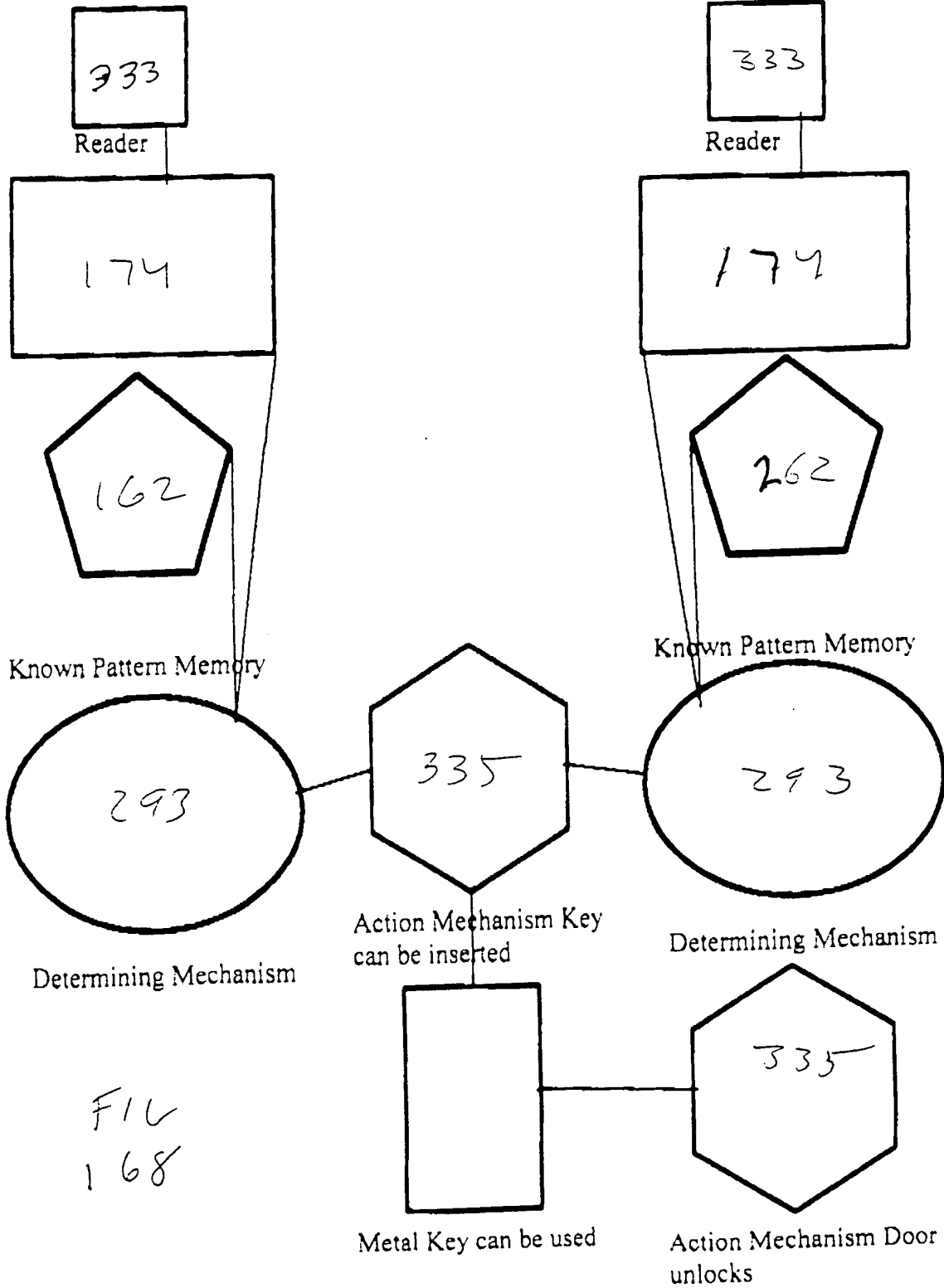


FIG
167

663160-219660

Sensors - Electrodes
door handle

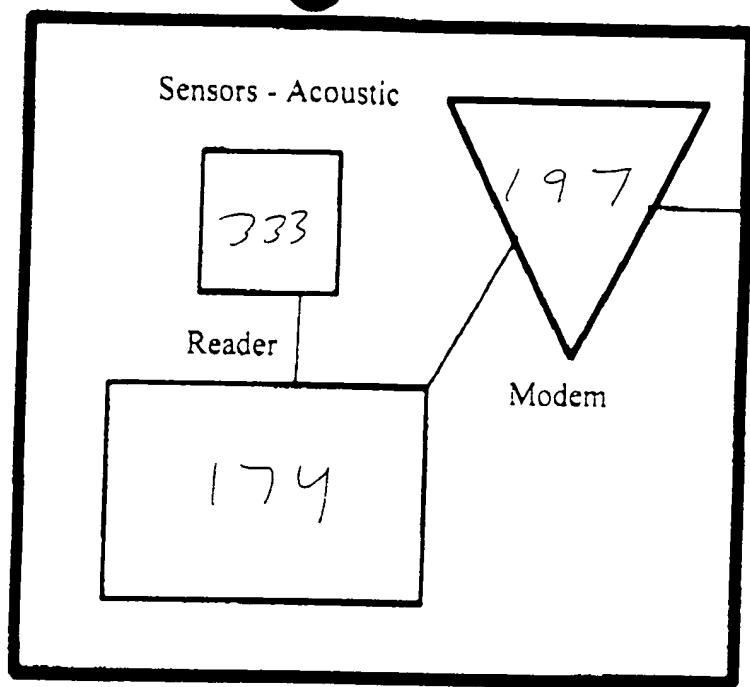
Sensors - Acoustic
transducer in thumb flap



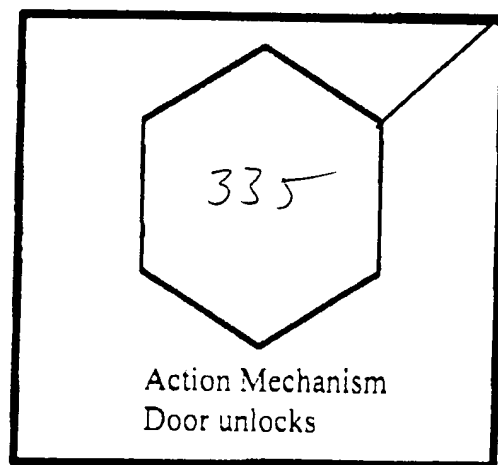
FIL
168

663160-215020

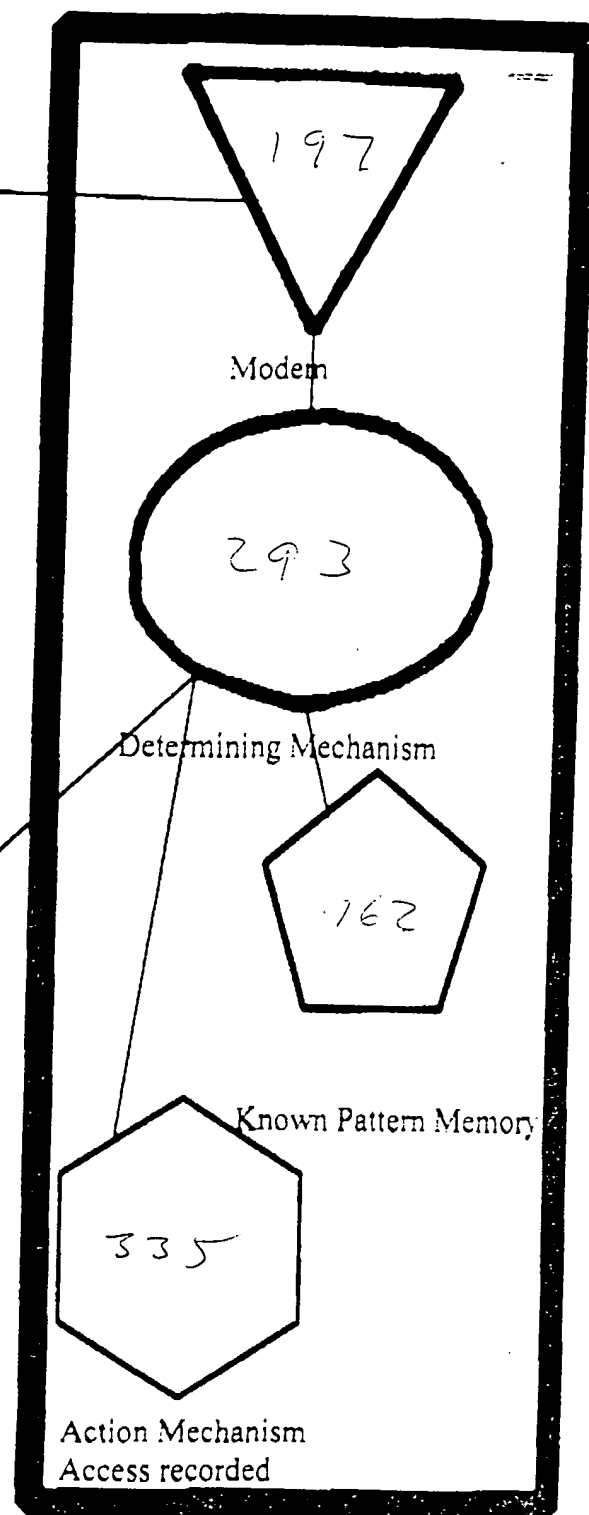
003064.0139
003160.213600



Sensor/Reader Hand Unit on Wall Next to Door



Electronic Door Lock 211



Laboratory Computer
158

FIG 169

663160-249660

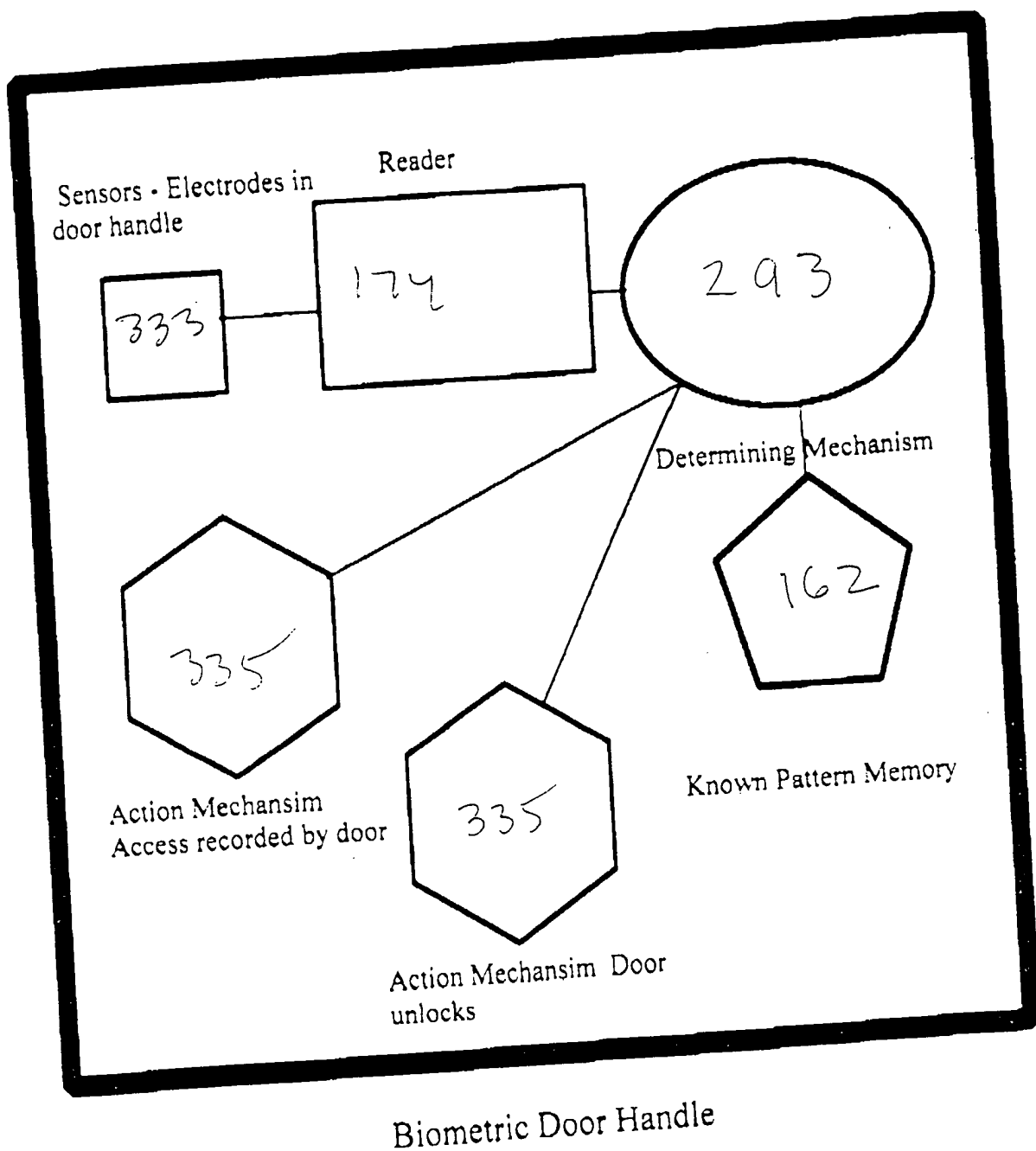
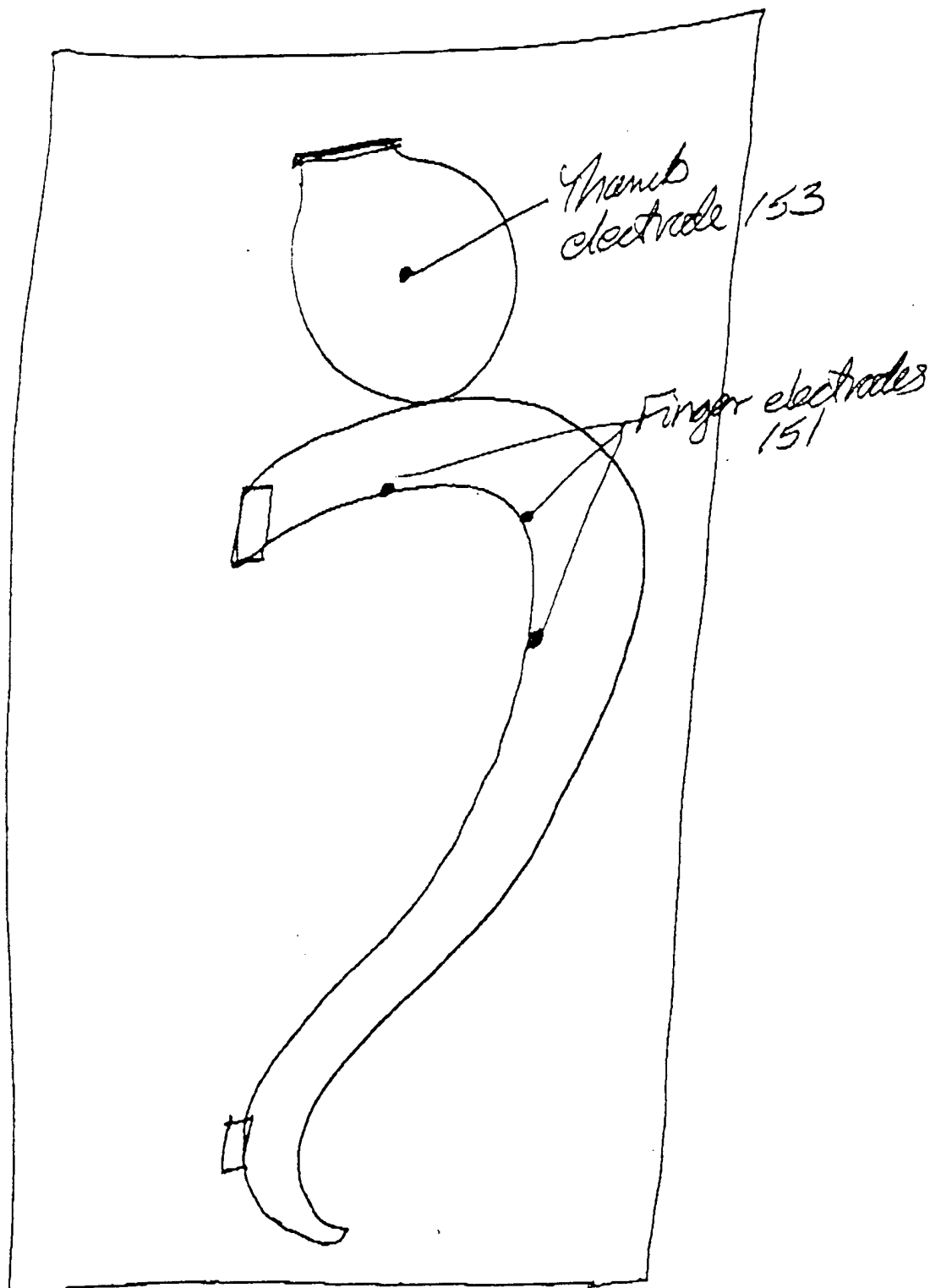


FIG 170

Door Handle Electrodes

Fig
170a

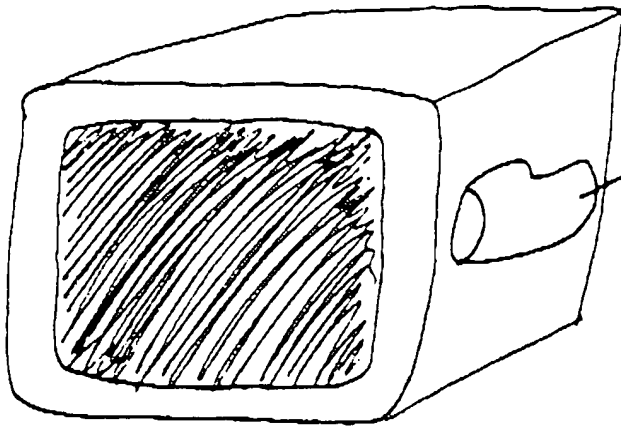


603160" 61.50000

Shell Handpiece

FIG

171a

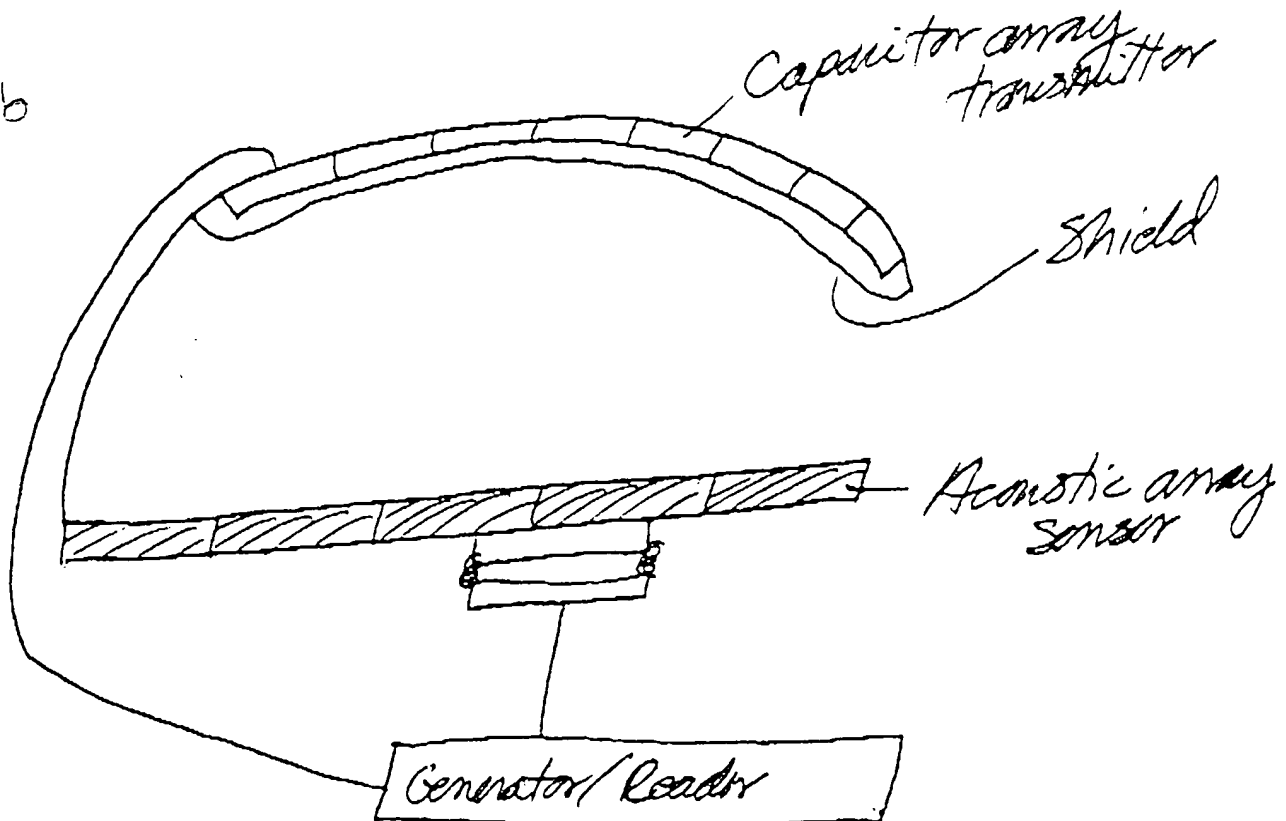


Shell handpiece
on side of monitor

0000541-091500
665160-171b

FIG

171b



A hand-drawn block diagram illustrating a system architecture. The diagram consists of the following components and connections:

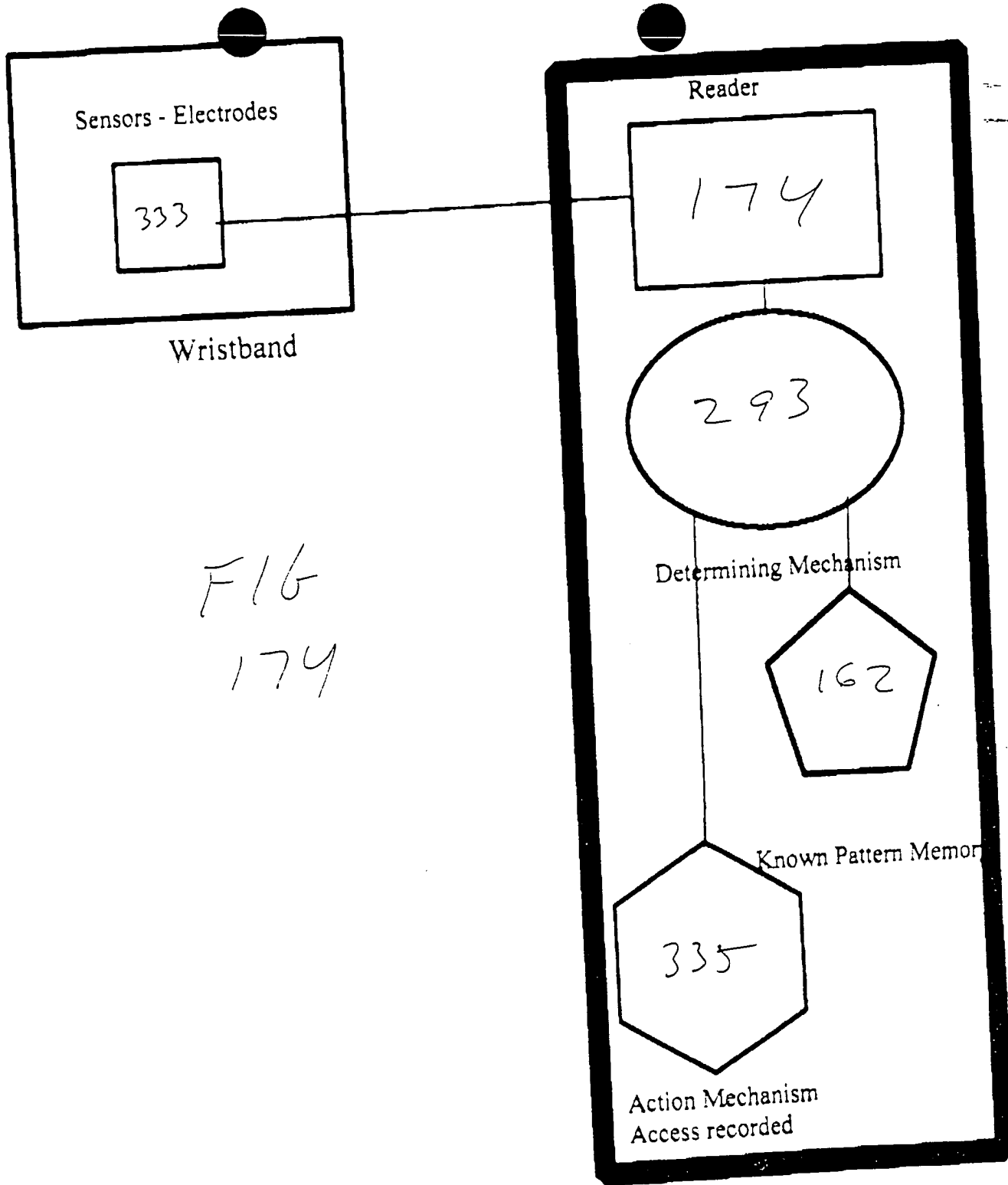
- Sensors - Electrodes or transducer**: A rectangular block labeled **333**.
- Reader**: A rectangular block labeled **174**.
- Determining Mechanism**: An oval-shaped block labeled **293**.
- Action Mechanism**: A hexagonal block labeled **335**, with the text **Weapon use enabled** written below it.
- Known Pattern Memory**: A pentagonal block labeled **162**.

The connections between the blocks are as follows:

- A line connects the **Sensors** block (**333**) to the **Reader** block (**174**).
- A line connects the **Reader** block (**174**) to the **Determining Mechanism** oval (**293**).
- A line connects the **Determining Mechanism** oval (**293**) to the **Action Mechanism** hexagon (**335**).
- A line connects the **Determining Mechanism** oval (**293**) to the **Known Pattern Memory** pentagon (**162**).

Goo Weapon Biometric Handle

FIG 173



Portable Reader Unit Carried by
Guards

The diagram illustrates a security system architecture with the following components and connections:

- Sensors - Electrodes**: A square box containing the handwritten number **333**.
- Reader**: A rectangular box containing the handwritten number **174**.
- Determining Mechanism**: An oval shape containing the handwritten number **293**.
- Action Mechanism Drug cabinet unlocks**: A hexagonal shape containing the handwritten number **335**.
- Known Pattern Memory**: A pentagonal shape containing the handwritten number **162**.

The connections between the components are as follows:

- A line connects the **Sensors - Electrodes** box to the **Reader** box.
- A line connects the **Reader** box to the **Determining Mechanism** oval.
- A line connects the **Determining Mechanism** oval to the **Action Mechanism Drug cabinet unlocks** hexagon.
- A line connects the **Determining Mechanism** oval to the **Known Pattern Memory** pentagon.

Drug Cabinet Handpiece/Lock Mechanism

F16 175

Sensors - Electrodes

333

229

Recevier

Sensor PAN Card

Reader

174

223

PAN Receiver

335

Action Mechansim Drug cabinet unlocks

293

Determining Mechanism

162

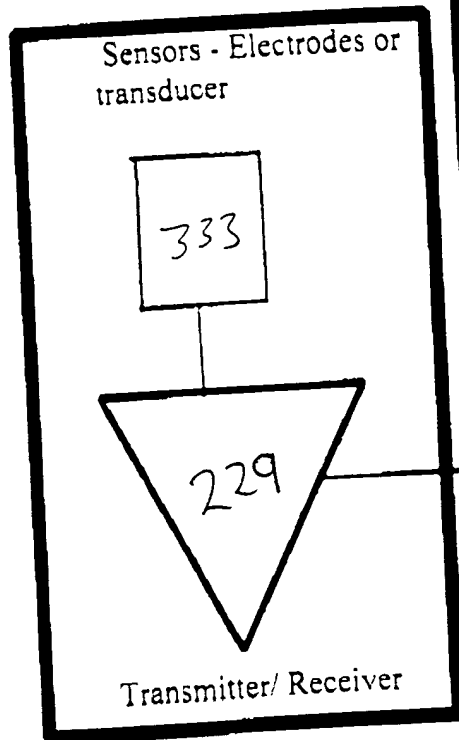
Known Pattern Memory

FIG 176

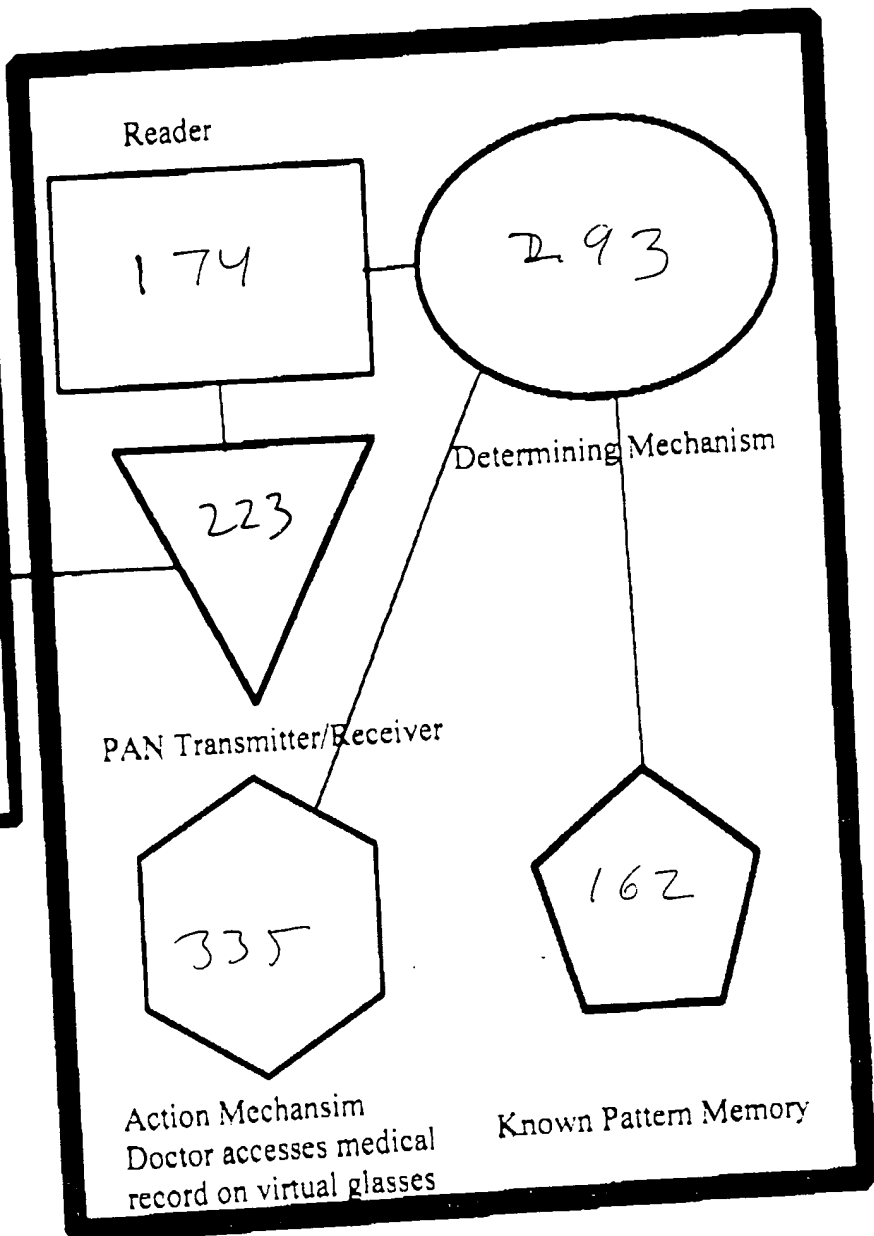
Flb
176

Drug Cabinet PAN/Lock Mechanism

605160243660



Sensor PAN Virtual Screen Glasses

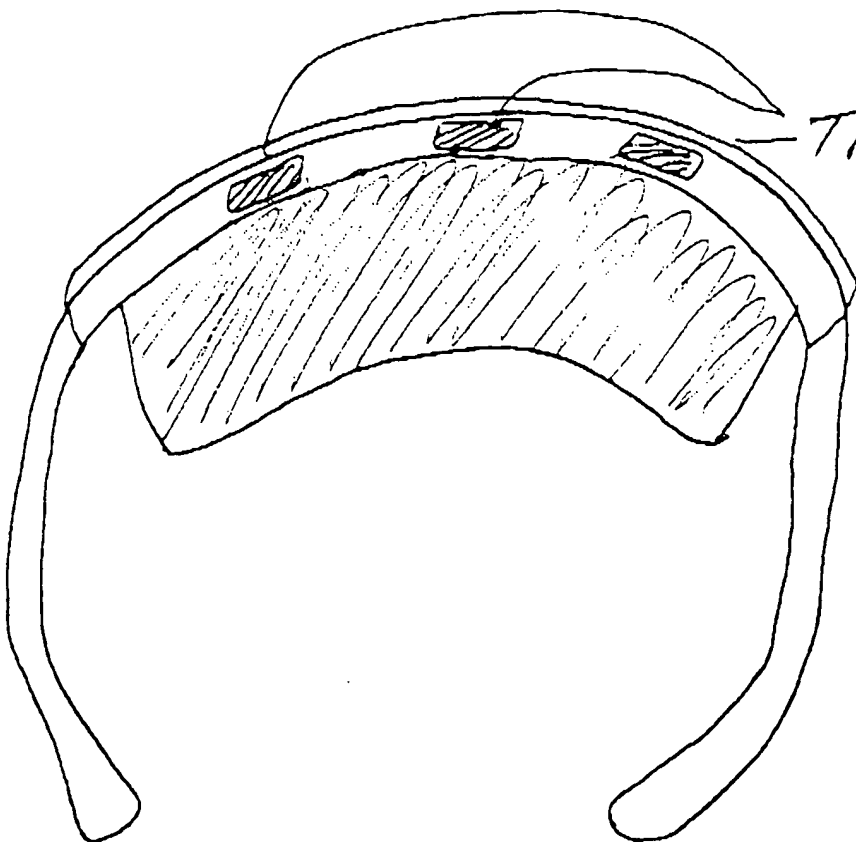


Central Records Computer

FIG
177

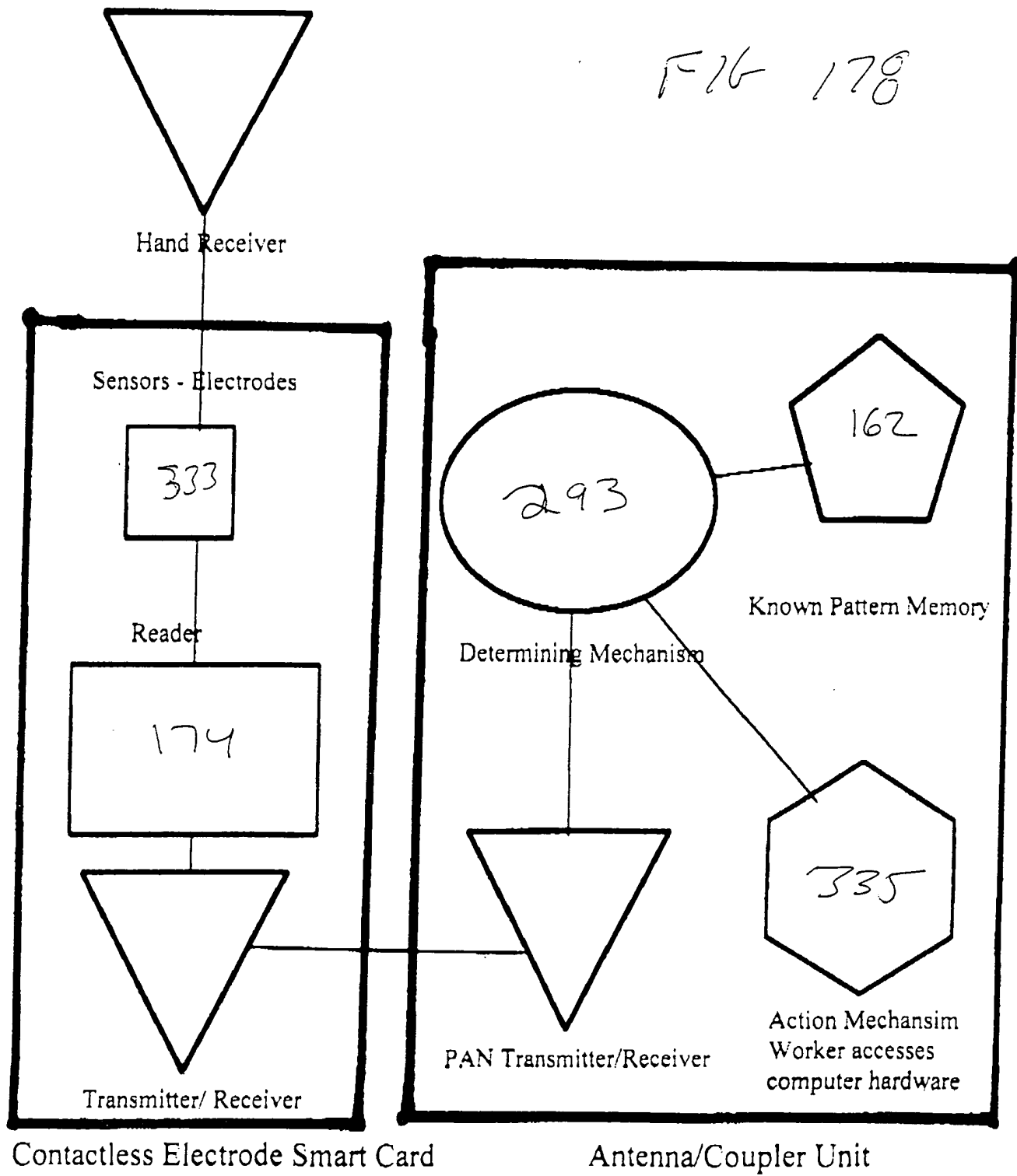
POLYMER LETTERS

Fig
177b



Transducers (inside forehead rim)

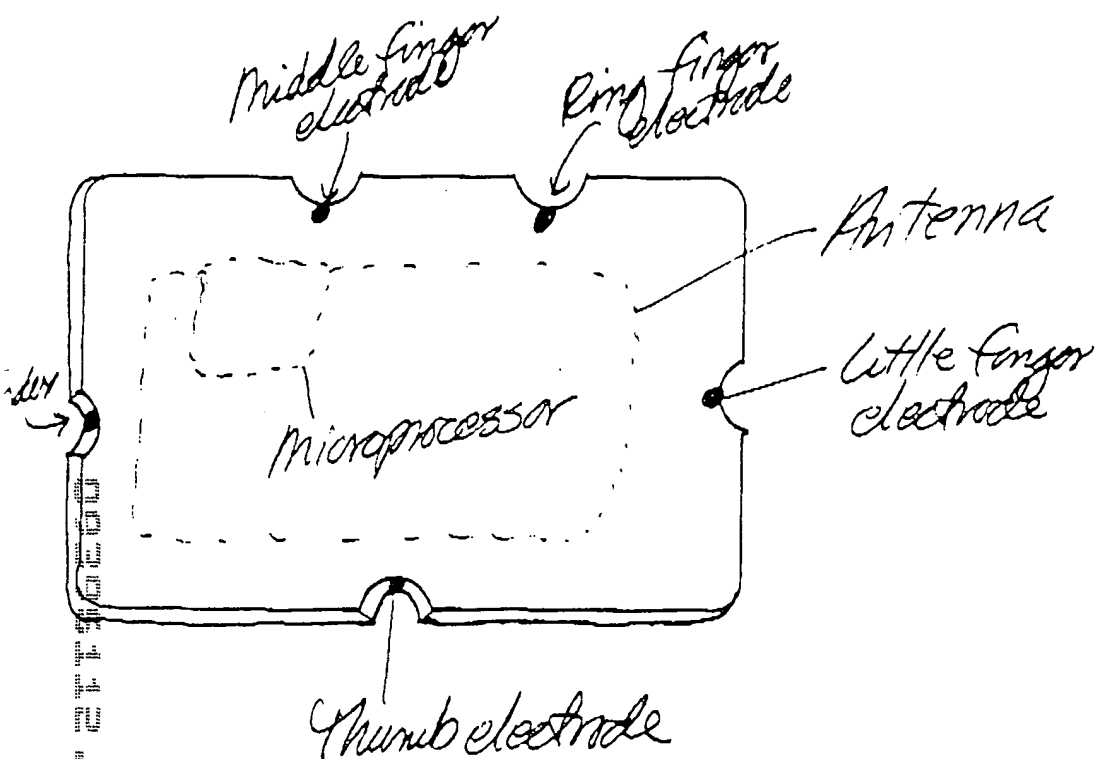
F16 178



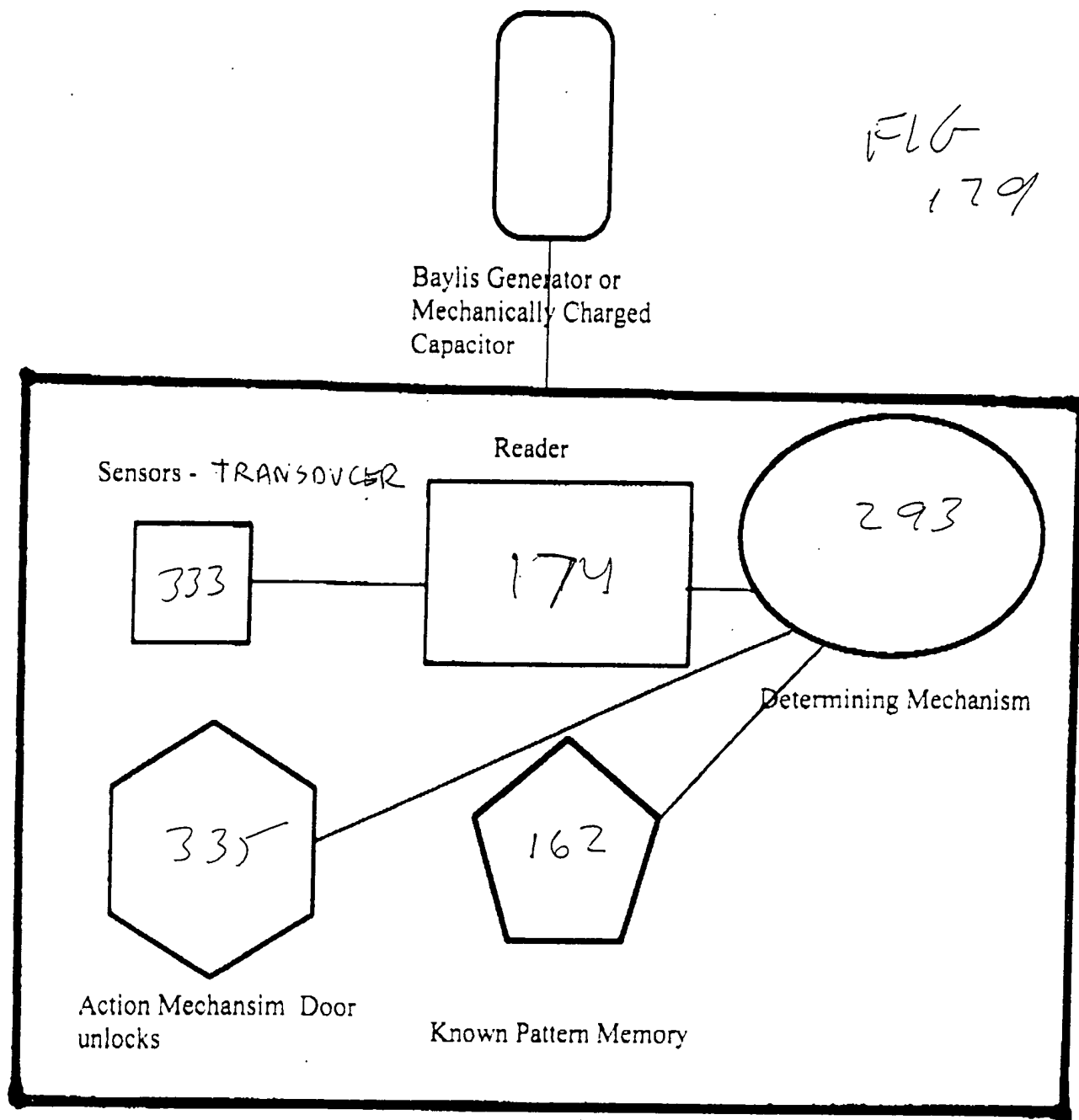
65160"EF9660

Scalped Electrode Card

Fig
178a



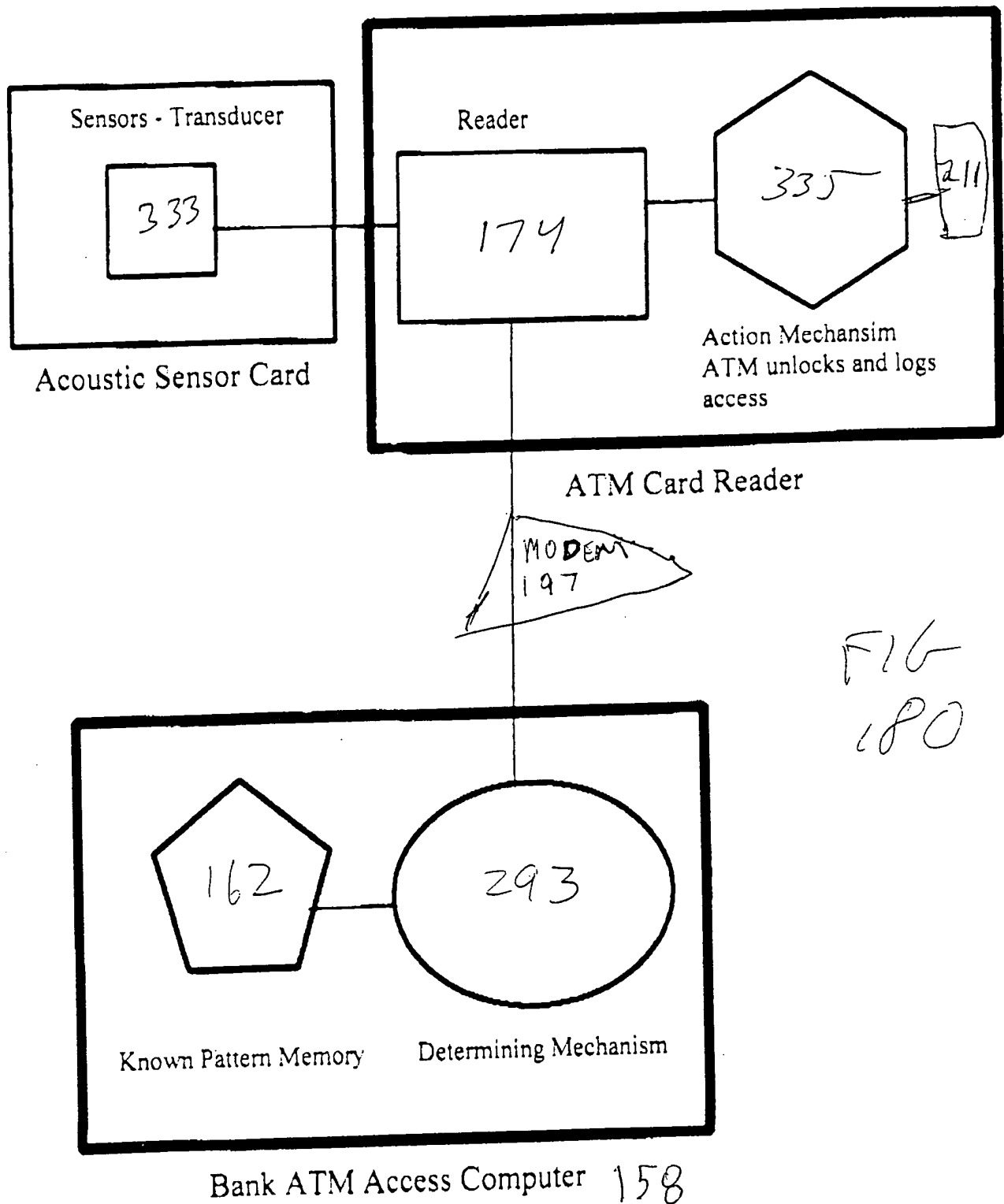
SECRET



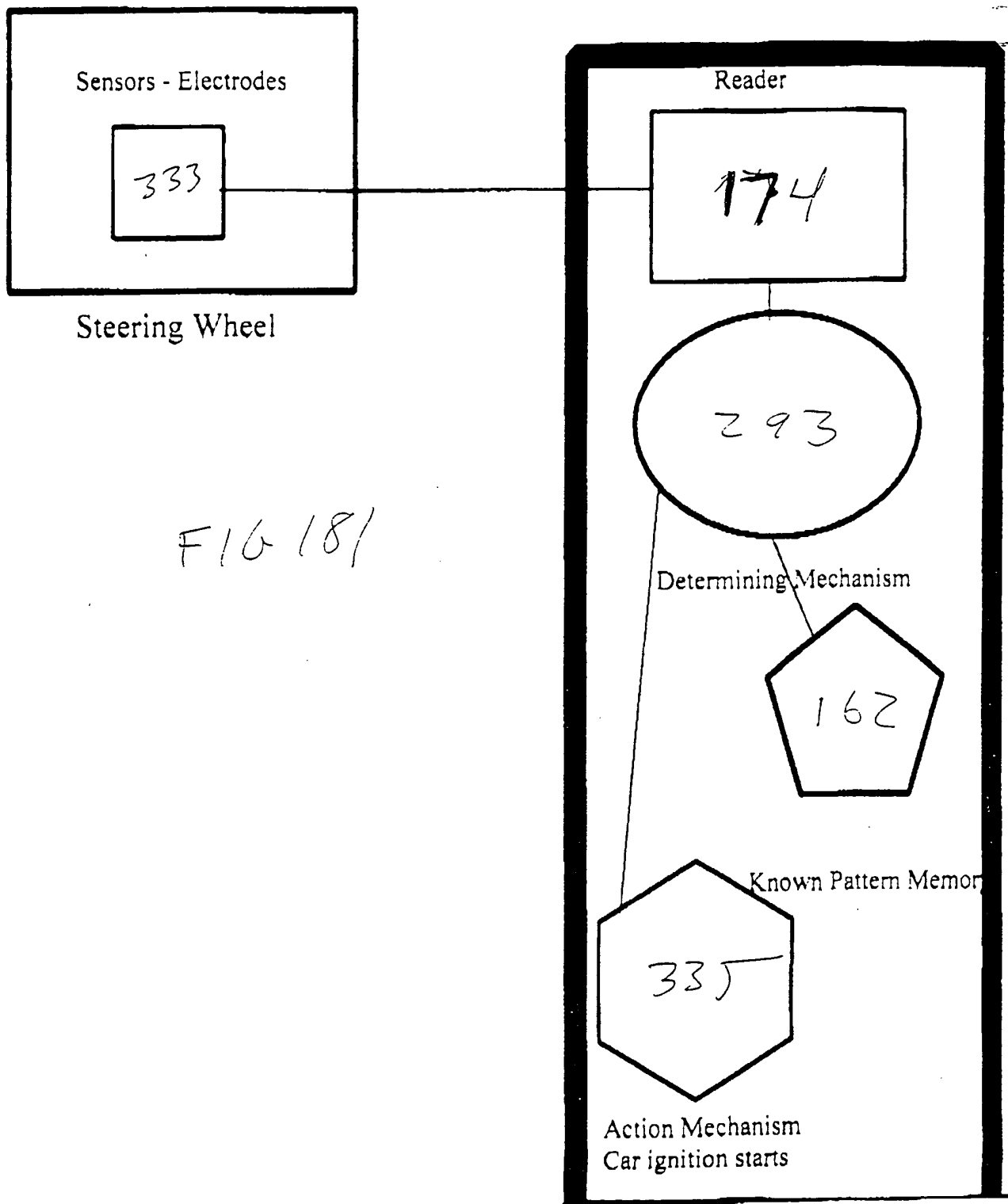
TV or Radio Biometric Lock

FLG
179

003043.09100
003043.09100



665460-275660



005160" 24 SEP 60

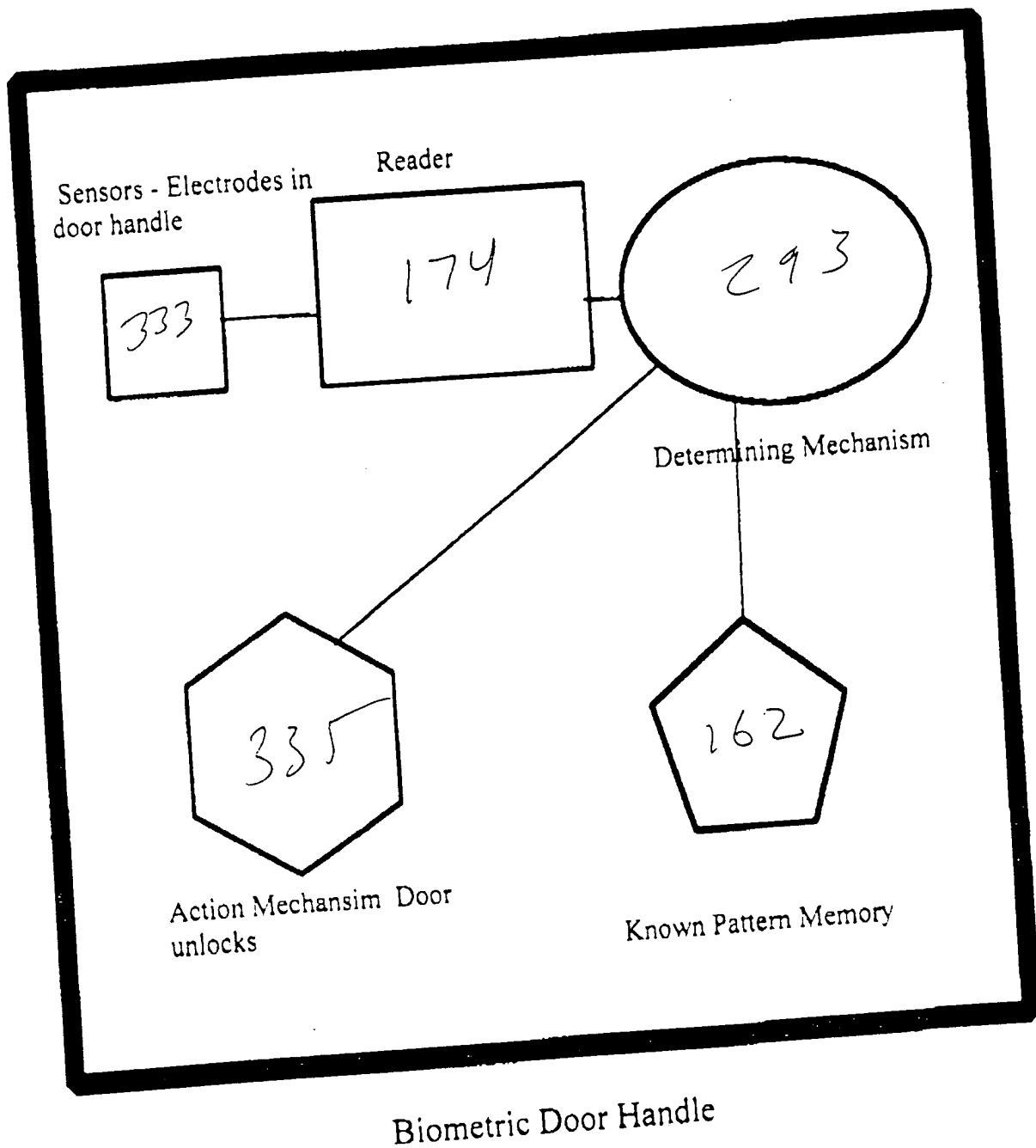
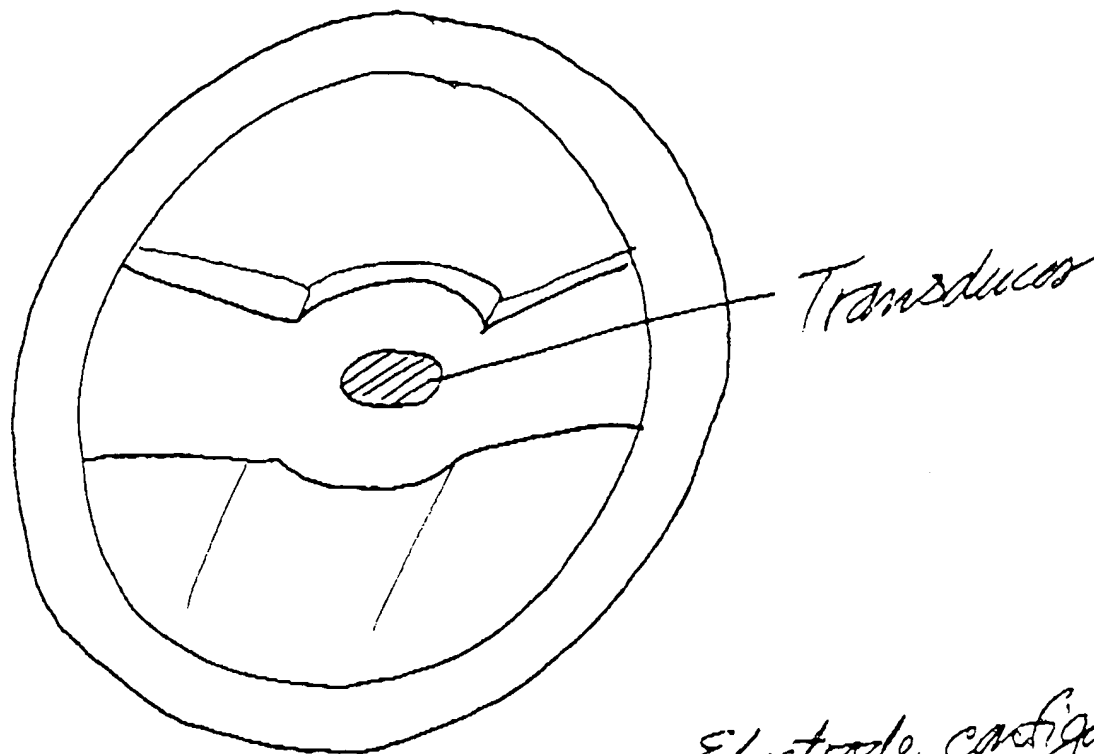


FIG
182

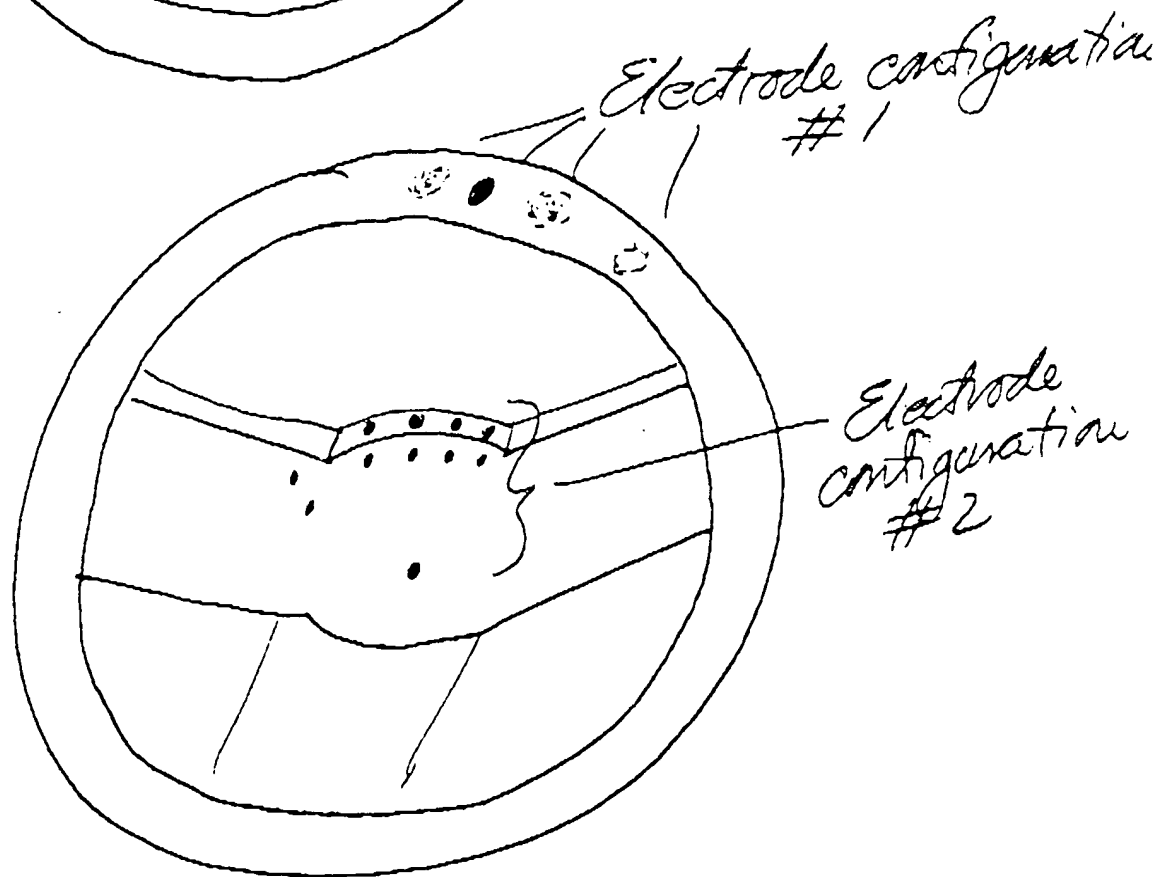
Biometric Steering Wheel

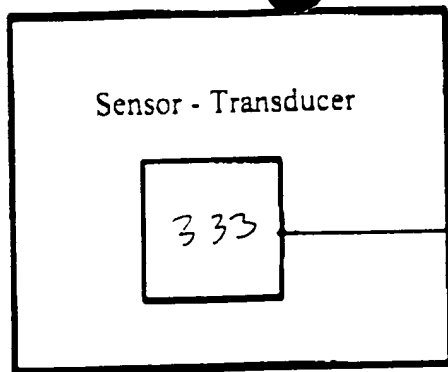
FIG
182a



0030543-001500
005160-219600

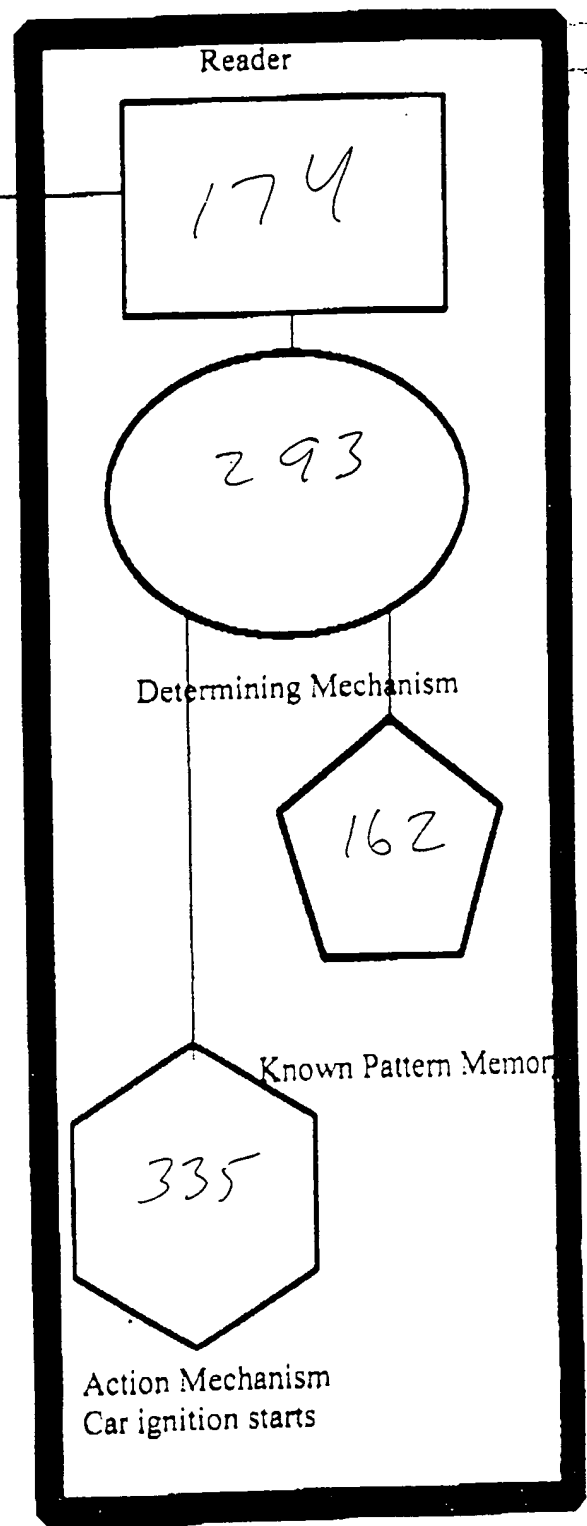
FIG
182b





Key with thumb sensor

FIG
183



Reader Unit in Dash Board

Biometric Key

FIG
183a

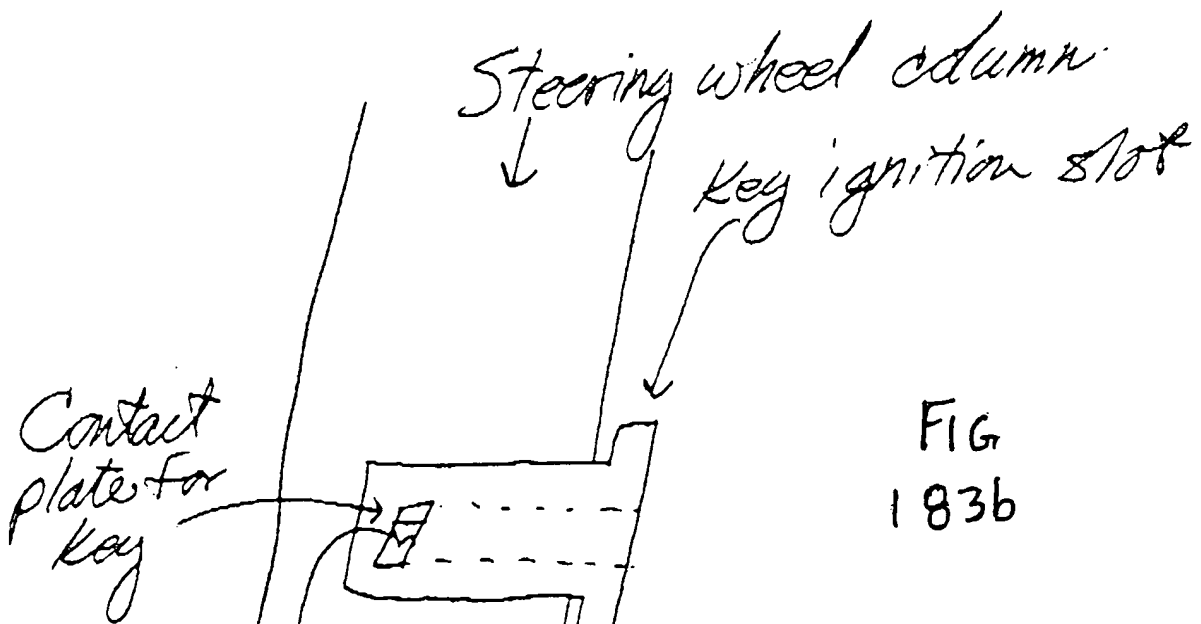
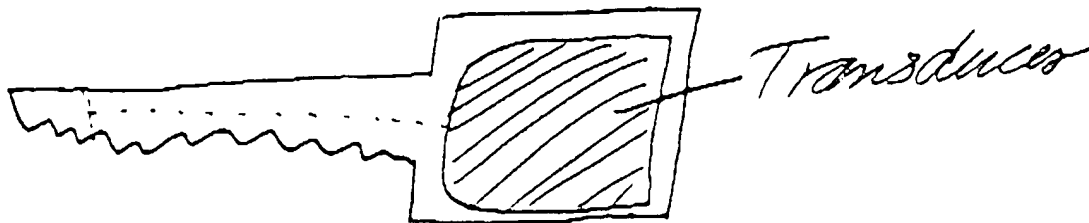
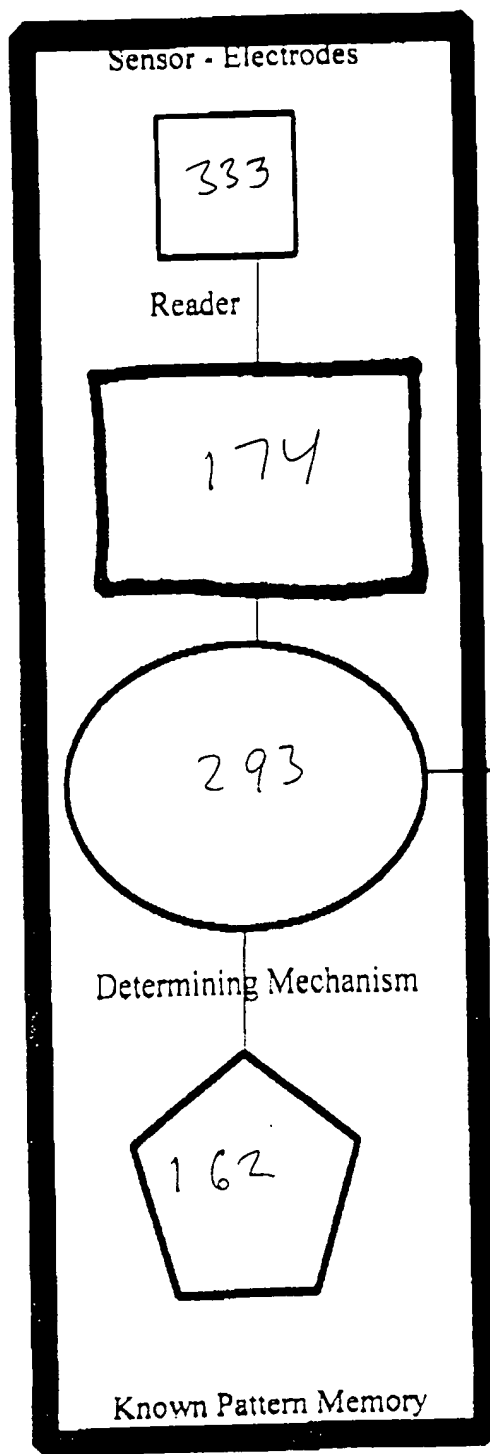


FIG
183b

Generator/Reader/
Notarizing Mechanism

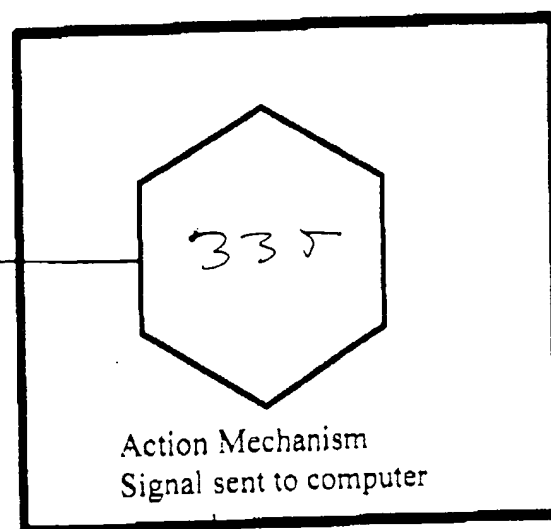
003643 004500
003643 004500

00000423001500

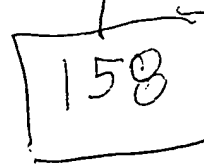


Wristband with electrode sensors/reader unit

FIG 185



Wireless System Communicating with Ship's Computer



Contactless Acoustic Band

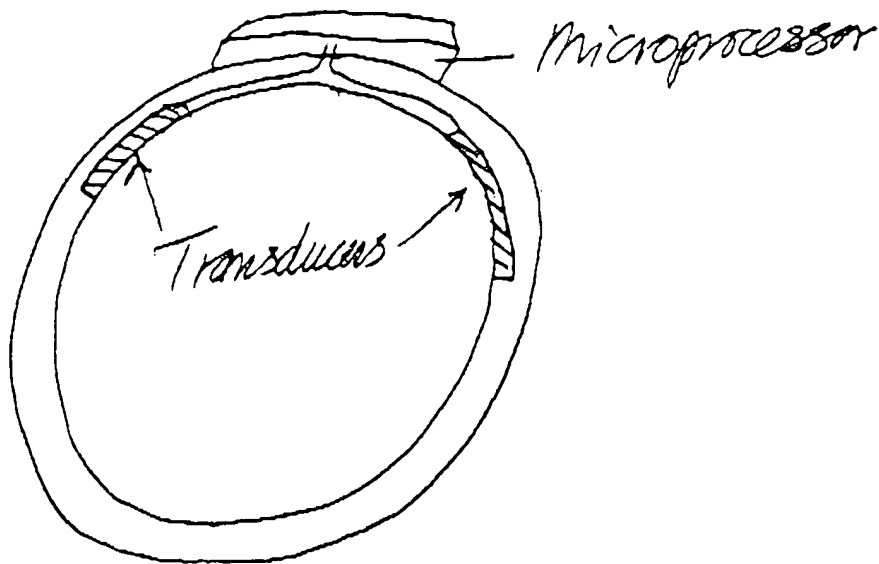


Fig
185a

Outside View

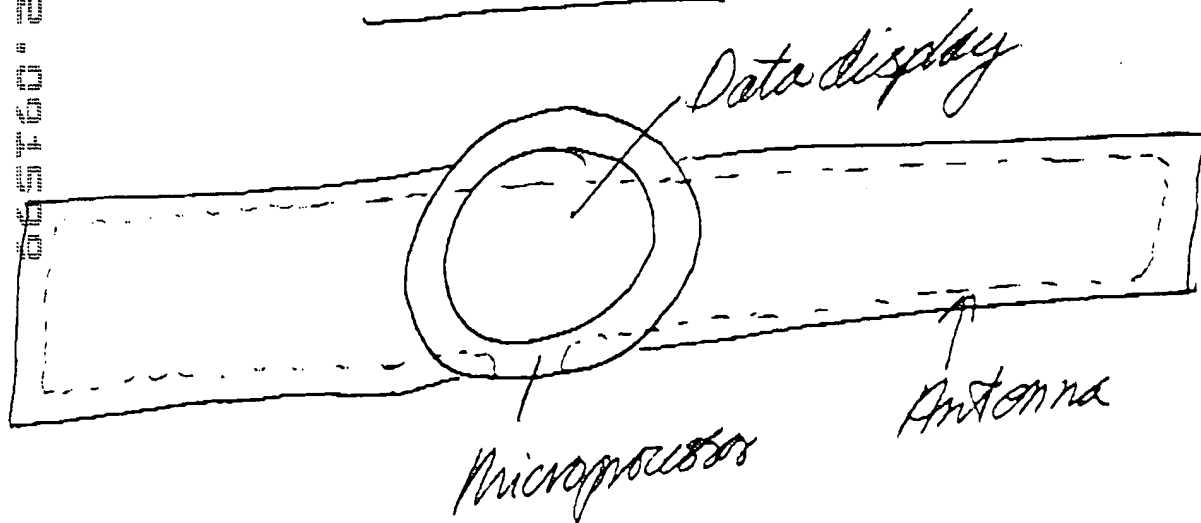


Fig
185b

Inside View

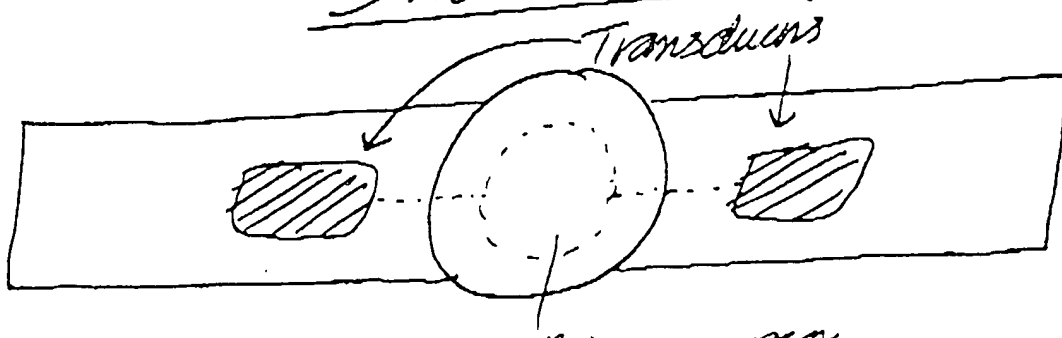


Fig
185c

Contactless Electrode Watch

Fig
185d

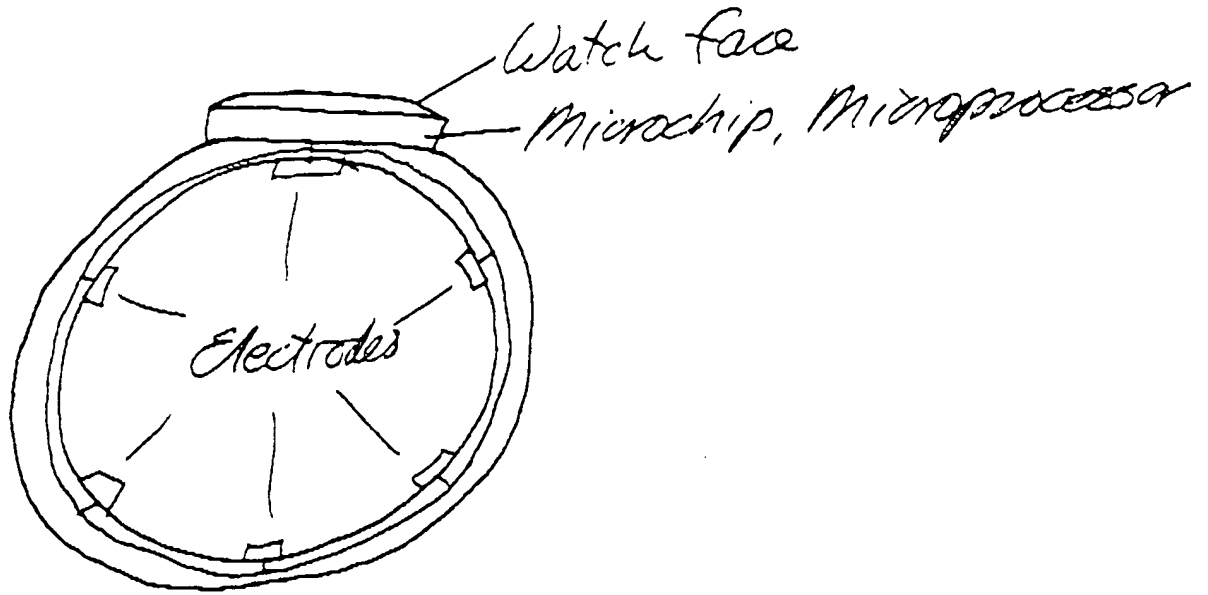


Fig
185e

Outside View

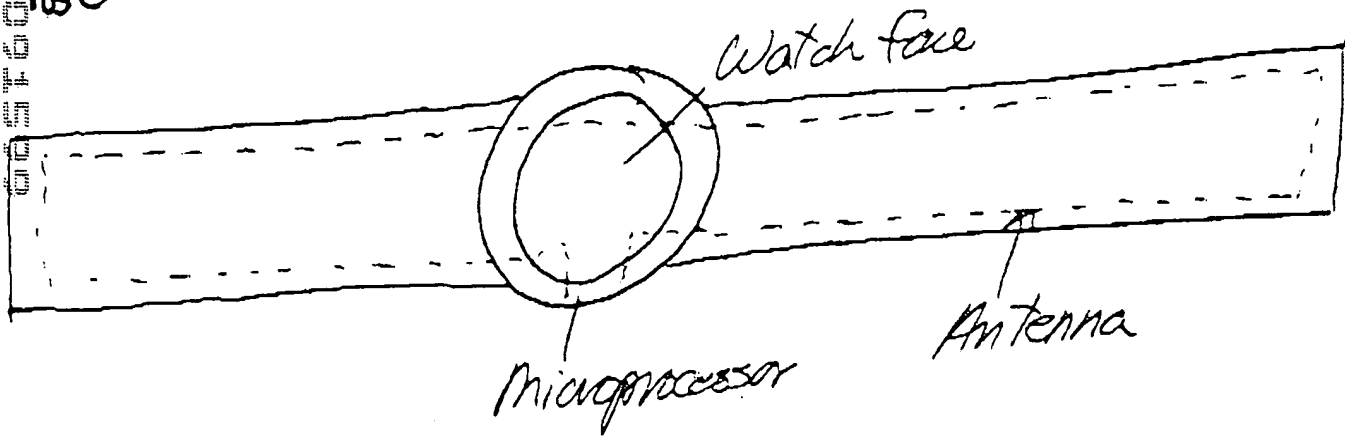
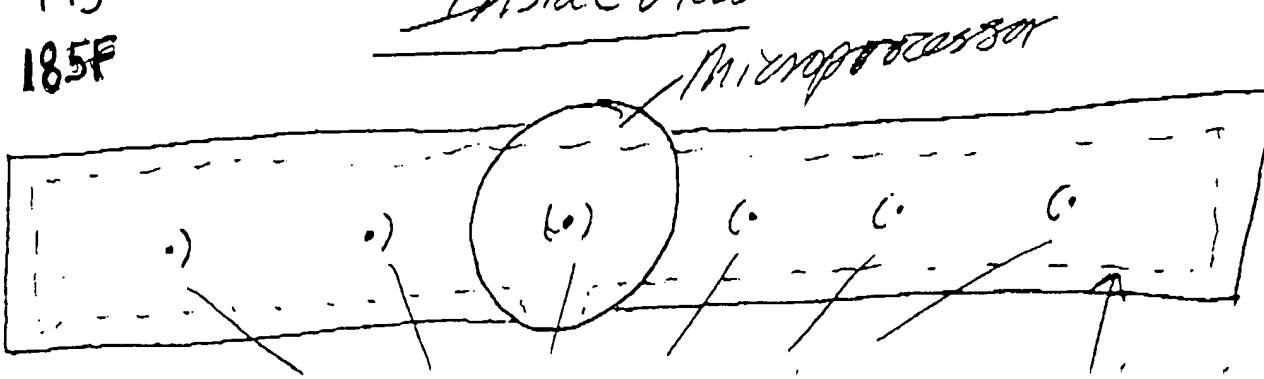
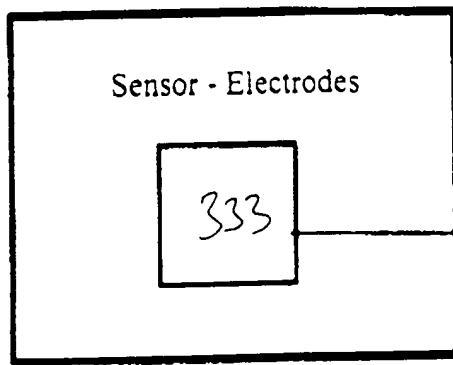


Fig
185F

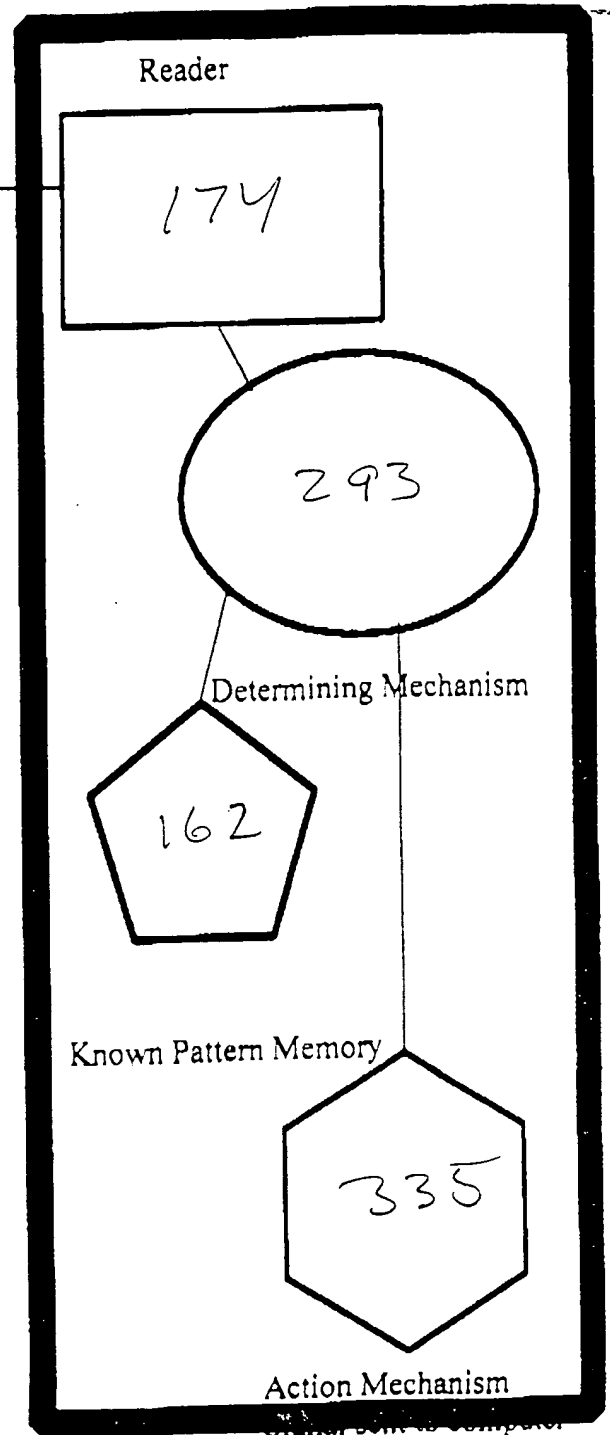
Inside View





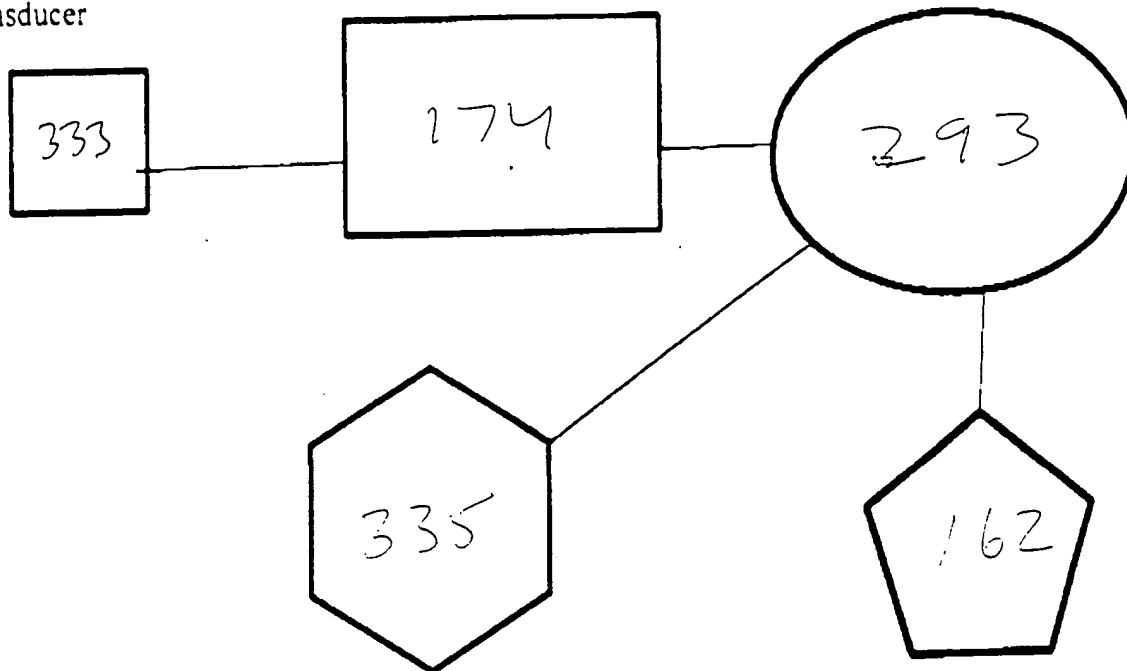
Card with electrode sensors

FIG 186



Wireless Car System
Communicating with GPS and
home office

Determining Mechanism



Known Pattern Memory

F16 187

1. The first step is to identify the problem. This involves understanding the symptoms and the context in which they are occurring.

Emergency Room Reader
Unit

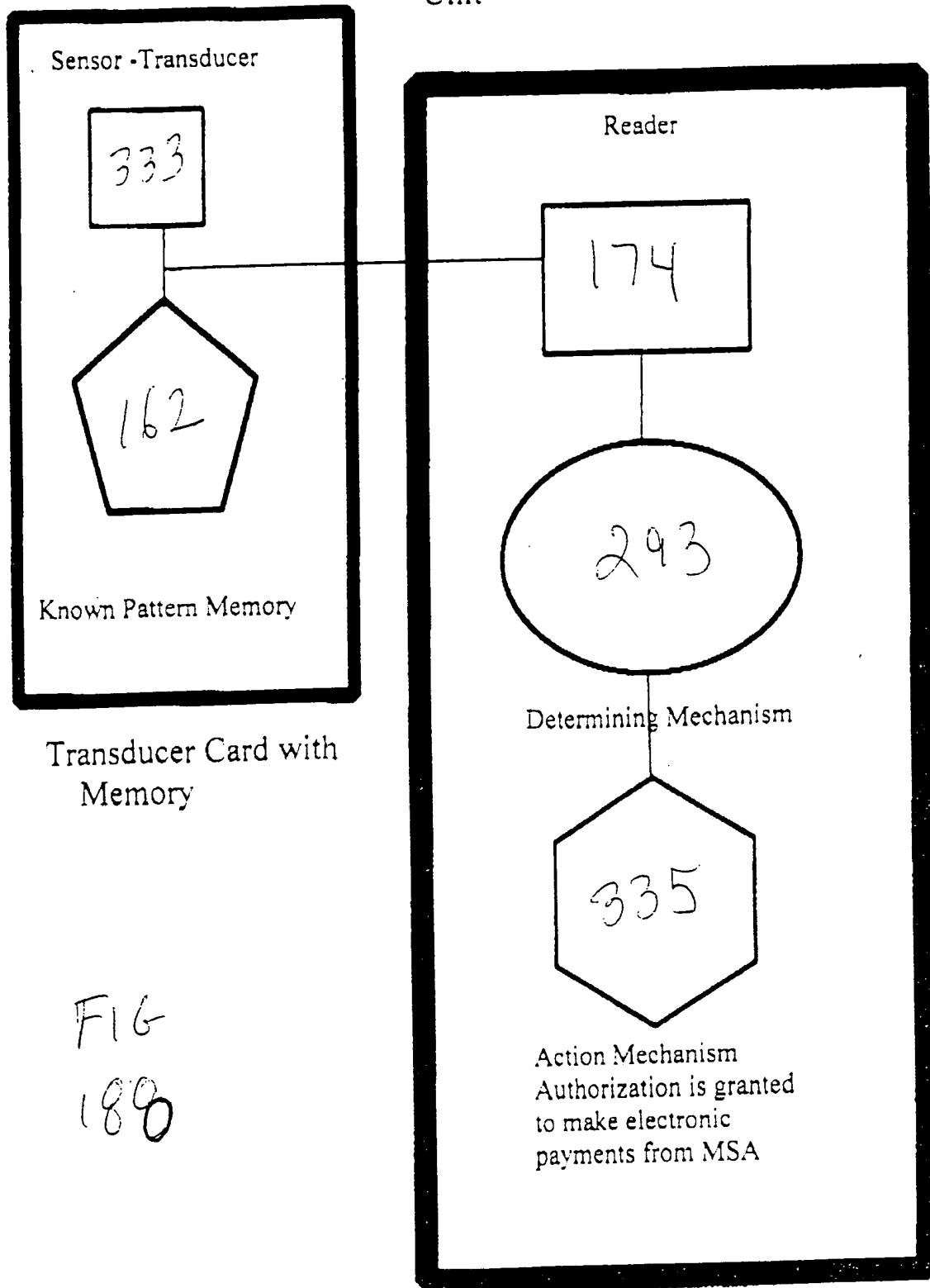


FIG
188

005460 219660

Portable Video-phone

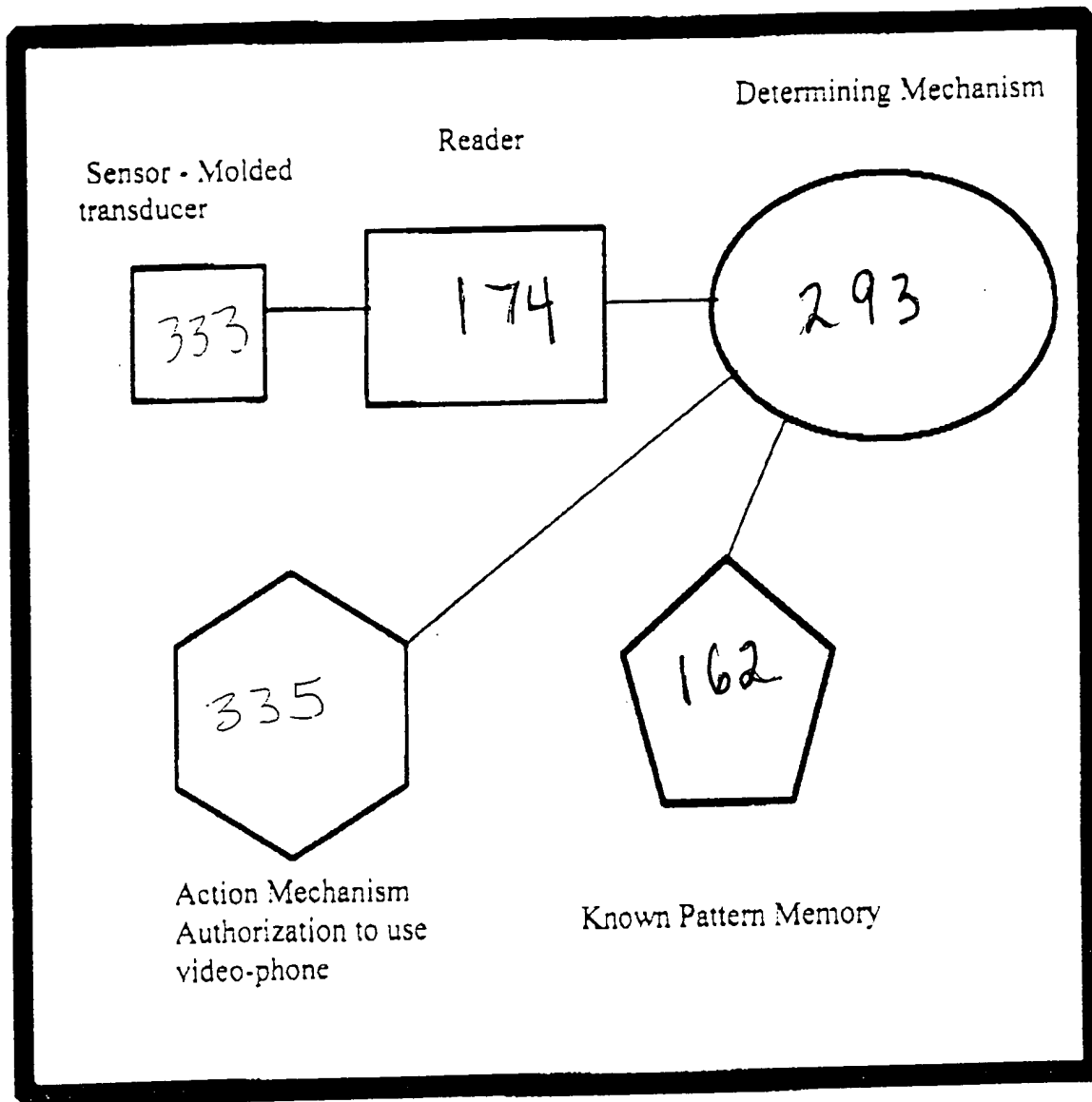
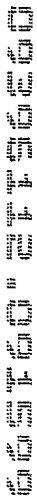


FIG 189



6630160

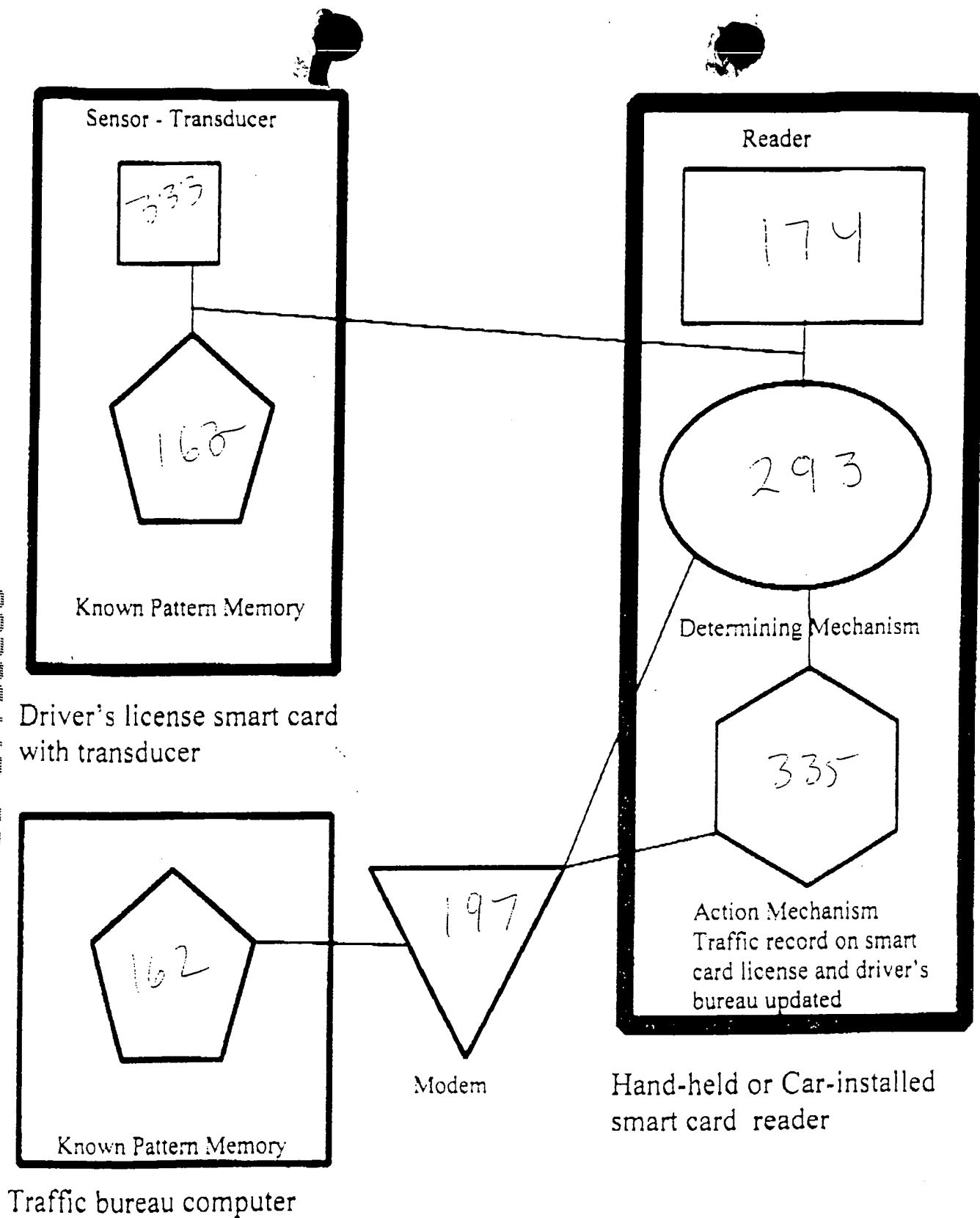


FIG 192